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IFIP SECRETARIAT

HOFSTRASSE 3

A-2361 LAXENBURG
AUSTRIA, EUROPE

General Secretary:	Eduard DUNDLER
Administrative Assistants:	Brigitte BRAUNEIS Marion SMITH
Telephone:	+43 2236 73 616
Telefax:	+43 2236 73 616 9
e-mail:	ifip@ifip.org
Internet-URL:	http://www.ifip.org

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IFIP's PAST PRESIDENTS

Isaac L. Auerbach	U.S.A.	1960 - 1965
Ambros B. Speiser	Switzerland	1965 - 1968
Anatol A. Dorodnicyn	Russia	1968 - 1971
Heinz Zemanek	Austria	1971 - 1974
Richard I. Tanaka	U.S.A.	1974 - 1977
Pierre A. Bobillier	Switzerland	1977 - 1983
Kaoru Ando	Japan	1983 - 1986
Ashley W. Goldsworthy	Australia	1986 - 1989
Blagovest H. Sendov	Bulgaria	1989 - 1992
Asbjorn Rolstadas	Norway	1992 - 1995
Kurt Bauknecht	Switzerland	1995 - 1998
Peter Bollerslev	Denmark	1998 - 2001
Robert Aiken	U.S.A.	2001
Walter Grafendorfer	Austria	2001 - 2002
Klaus Brunnstein	Germany	2002 - 2007
Basie von Solms	South Africa	2007 - 2010
Leon Strous	Netherlands	2010 - 2016

IFIP's Honorary Members

1979: Dr. Richard Tanaka	IFIP President 1974 - 1977
1989: Prof. Pierre A. Bobillier	IFIP President 1977 - 1983
1997: Prof. Asbjorn Rolstadas	IFIP President 1992 - 1995
1998: Acad. Blagovest Sendov	IFIP President 1989 - 1992
1999: Prof. Ashley W. Goldsworthy	IFIP President 1986 - 1989
1999: Mr Graham Morris	IFIP Honorary Secretary 1996 - 1999
2001: Prof. Kurt Bauknecht	IFIP President 1995 - 1998
2014: Prof. Sebastiaan von Solms	IFIP President 2007 - 2010
2017: Mr Leon Strous	IFIP President 2010 - 2016

INTRODUCTION

This publication is an edited subset of a comprehensive database which is regularly updated and is accessible through international networks. In particular the “electronic Bulletin” contains detailed statements of aims and scope for every Working Group.

A wide range of information is available electronically from the IFIP secretariat including the IFIP News, minutes of our General Assembly and Board meetings, IFIP documents and other valuable information on IFIP and its activities.

There are also links to pages of information about our Members and Technical Committees.

Access may be obtained as follows:

URL: http://www.ifip.org

IFIP's MISSION STATEMENT

IFIP's mission is to be the leading, truly international, apolitical organization which encourages and assists in the development, exploitation and application of Information Technology for the benefit of all people.

Principal Elements

1. To stimulate, encourage and participate in research, development and application of Information Technology (IT) and to foster international co-operation in these activities.
2. To provide a meeting place where national IT Societies can discuss and plan courses of action on issues in our field which are of international significance and thereby to forge increasingly strong links between them and with IFIP.
3. To promote international co-operation directly and through national IT Societies in a free environment between individuals, national and international governmental bodies and kindred scientific and professional organizations.
4. To pay special attention to the needs of developing countries and to assist them in appropriate ways to secure the optimum benefit from the application of IT.
5. To promote professionalism, incorporating high standards of ethics and conduct, among all IT practitioners.
6. To provide a forum for assessing the social consequences of IT applications; to campaign for the safe and beneficial development and use of IT and the protection of people from abuse through its improper application.
7. To foster and facilitate co-operation between academics, the IT industry and governmental bodies and to seek to represent the interest of users.
8. To provide a vehicle for work on the international aspects of IT development and application including the necessary preparatory work for the generation of international standards.
9. To contribute to the formulation of the education and training needed by IT practitioners, users and the public at large.

IFIP IN PERSPECTIVE

Origins

IFIP traces its roots to the very first major international conference on computers and computing which was held in Paris in 1959 under the auspices of UNESCO. Representatives of the main computer societies active in computing got together at that meeting to explore ways of building on the achievements of the conference. As a result thirteen national computer societies agreed to found in 1960 an international federation and named it IFIP - the International Federation for Information Processing.

IFIP's principal aims were and are to foster international cooperation, to stimulate research, development and applications and to encourage education and the dissemination and exchange of information on all aspects of computing and communication.

IFIP's creation was well timed. In the 1960s there began a veritable explosion in the growth of the computer industry and in the application of its products. Within the life-span of IFIP information technology (as it is widely known today) has become a potent instrument affecting people in everything from their education and work to their leisure and in their homes. It is a powerful tool in science and engineering, in commerce and industry, in education and administration and in entertainment.

Membership

Today IFIP has 41 organizations as Full Members, 2 International Members at Large and 4 Associate Members, representing countries from all regions of the world.

Organisation

A General Assembly of all its Members and TC Chairs takes place annually and has overall responsibility for all of IFIP's strategy, finance and activities. It elects a President, four Vice-Presidents, a Honorary Treasurer, a Honorary Secretary and eight Councillors who together form the IFIP Board.

Congresses and Major Conferences

IFIP's flagship event is its World Computer Congress, currently held biannually. The 22nd IFIP World Congress was held in Amsterdam, The Netherlands from 24 to 26 September, 2012 (http://www.wcc-2012.org/). The 23rd IFIP World Congress was held in Daejeon, Republic of Korea from 4 to 7 October, 2015 (http://www.wcc-2015.org). The 24th IFIP World Congress will be in Poznan, Poland in September 2018.

The nature of these Congresses has changed substantially over the years. They are no longer of the all-singing and -dancing variety addressing every conceivable facet of our field. Instead they consist of a number of independent conferences, each dealing with a major specialised subject. These run in parallel so that some more general keynote addresses can be attended by all participants who can also share in social and other acitivities.

In addition there are major international conferences organised by our Technical Committees. These include events dealing with Production Engineering, Security, Computers in Education and Human Computer Interaction.

Technical Activities

At the heart of IFIP lie its Technical Committees that, between them, count on the active participation of some two thousand people world-wide. There are thirteen such Committees. Each Technical committee is, in effect, a management team responsible for a given field of activity and for the work of from five to thirteen Working Groups, a total of 101. These Groups work in a variety of ways to share experience and to develop their specialised knowledge. These include open conferences, smaller working conferences, seminars and tutorials, circulated papers and, increasingly, as befits our subject, electronic conferencing and e-mail.

Publications

Many IFIP events are linked to publications and there are annually some 30 to 40 IFIP books. Our principal publisher is

Springer-Verlag GmbH
e-mail: ifip@springer.com

IFIP News

A vital element of IFIP's communication with its Members and with all who participate in our work is the IFIP Newsletter. This is published quarterly in electronic form and is published on IFIP's website www.ifip.org.

Relationships

IFIP enjoys friendly cooperation with a number of international organisations. First among these is UNESCO with which IFIP maintains a formal consultative relationship. UNESCO has commissioned from IFIP several projects and supports the participation of some people from developing countries in IFIP events. IFIP is a Scientific Associate of ICSU (International Council of Scientific Unions).

There are four international federations with which IFIP collaborates. These are IFAC (International Federation of Automatic Control), near neighbours of ours in Laxenburg, IMACS (International Association for Mathematics and Computers in Simulation), IFORS (International Federation of Operational Research Societies) and IMEKO (International Measurement Confederation).

IFIP Secretariat

The administrative hub of IFIP is our secretariat at Laxenburg, near Vienna. Eduard Dundler, the General Secretary of IFIP, with the assistance of Brigitte Brauneis and Marion Smith is responsible for the wide range of administrative tasks vital to the operation of such a far-flung international body. Good communication and information are essential and our secretariat provides a comprehensive service using up-to-date technology.

IFIP COUNCIL

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Max Bramer	Vice President	Ex officio	2013 - 2019
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Kai Rannenberg	Vice President	Germany	2015 - 2018
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Declan Brady	Treasurer	Ireland	2014 - 2020

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Yasas Abeywickrama (GA)	Sri Lanka	2015 - 2018
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Michael Goedicke (TA)	Ex officio	2012 - 2019
Maria Raffai (MS)	Hungary	2016 - 2019
Raimundo Macedo (Pr.)	Brazil	2015 - 2018
Anthony Wong (IP3)	Australia	2012 - 2019

IFIP GENERAL ASSEMBLY

Honorary Members

Prof. Kurt **BAUKNECHT**
Universitaet Zurich
Inst.f. Informatik
Winterthurerstrasse 190
CH-8057 ZURICH, Switzerland
Tel. +41 1 63 54310
Fax +41 1 63 56809
e-mail: baukn@ifi.unizh.ch

Prof. Pierre A. **BOBILLIER**
128 Rte de Soral
CH-1233 LULLY, Switzerland
Tel. +41 22 757 2021
Fax +41 22 757 6726
e-mail: pa.bobillier@gmail.com

Prof. Ashley W. **GOLDSWORTHY**
10/76 Thorn St.
Kangaroo Point
BRISBANE, QLD 4169
Australia
Tel. +61 7 3391 0864
Fax +61 7 3391 0868
e-mail: ashleyg@ozemail.com.au

Mr. Graham **MORRIS**
43 Pewley Hill
GUILDFORD, Surrey GU1 3SW
United Kingdom
Tel. +44 1 483 566 933
Fax +44 1 483 836 517

Prof. Asbjorn **ROLSTADAS**
Norw. Univ. of Science & Technology
Dept. of Product. & Quality Eng.
NO-7491 TRONDHEIM
Norway
Tel. +47 73 593 800
Fax +47 73 597 117
e-mail: asbjorn.rolstadas@ntnu.no

Acad. Blagovest **SENDOV**
Center f.Inform.&Comp.Tech.
Acad.G.Bonchev Str., Bl.25A
BG-1113 SOFIA, Bulgaria
Tel. +359 2 708 494
Fax +359 2 707 273
e-mail: sendov2003@yahoo.com

Mr. Leon **STROUS**
Gistel 20
NL-5707 GV HELMOND
The Netherlands
Tel. +31 20 524 2748
Fax +31 20 524 6148
e-mail: strous@iae.nl

Prof. Basie **von SOLMS**
University of Johannesburg
Auckland Park Kingsway Campus
PO Box 524
Auckland Park
ZA Johannesburg 2006
South Africa
Tel. +27 11 559 2843
Fax +27 11 559 2138
e-mail: basievs@uj.ac.za

Dr. Richard I. **TANAKA**
10321 Shadyridge Drive
SANTA ANA, CA 92705
U.S.A.
Tel. +1 714 838 7450
e-mail: ritanaka@cox.net

Country Representative Members

Society	Representative
AUSTRALIA Australian Computer Society (ACS) P.O. Box Q 534 QVB SYDNEY, N.S.W. 1230 Australia Tel. +61 2 9299 3666 Fax +61 2 9299 3997 e-mail: info@acs.org.au URL: http://www.acs.org.au	Mr. Anthony **WONG** Australian Computer Society Inc. (ACS) PO. Box Q 534 QVB SYDNEY, NSW 1230 Australia Tel. +61 2 9299 3666 Fax +61 2 9299 3997 e-mail: anthony.wong@acslink.net.au
AUSTRIA Austrian Computer Society (OCG) Wollzeile 1 AT-1010 VIENNA, Austria Tel. +43 1 512 0235 Fax +43 1 512 02359 e-mail: ocg@ocg.at URL: http://www.ocg.at	Prof. Erich **NEUHOLD** Universität Wien Fakultät für Informatik Währinger Straße 29 AT-1090 WIEN, Austria Tel. +43 1 4177 78801 Fax +43 1 4277 9780 e-mail: erich.neuhold@univie.ac.at
BRAZIL Sociedade Brasileira de Computação - SBC Instituto de Informatica - UFRGS Caixa Postal 15012 BR-91501-970 PORTO ALEGRE, Brazil Tel. +55 51 3308 6835 Fax +55 51 3308 7142 e-mail: supervisao@sbc.org.br URL: http://www.sbc.org.br	Prof. Raimundo José de Araújo **MACEDO** Universidade Federal da Bahia Computer Science Department BR-40170-110 SALVADOR, BA Brazil Tel. +55 71 3283 6142 Fax +55 71 3283 6145 e-mail: macedo@ufba.br
BULGARIA Bulgarian Academy of Sciences 1, "15 Noemvri" Str. BG-1040 SOFIA Bulgaria Tel. +359 2 981 66 22 Fax +359 2 981 66 29 email: presidentbas@cu.bas.bg URL: http://www.ifip.acad.bg	Prof. Julian **REVALSKI** President Bulgarian Academy of Sciences 1, "15 Noemvri" Str. BG-1040 SOFIA Bulgaria Tel. +359 2 981 66 22 Fax +359 2 981 66 29 email: presidentbas@cu.bas.bg
CANADA Canadian Information Processing Society (CIPS) 60 Bristol Rd E Unit 8, #324 MISSISSAUGA, ON L4Z 3K8 Canada Tel. +1 905 602 1370 Fax +1 905 602 7884 e-mail: info@cips.ca URL: http://www.cips.ca	T B D Canadian Information Processing Society (CIPS) attn. Ms. Mary Jean Kucerak 60 Bristol Rd E Unit 8, # 324 MISSISSAUGA, ON L4Z 3K8 Canada Tel. +1 905 602 1370 e-mail: info@cips.ca
CHINA Chinese Institute of Electronics - CIE Puhuinanli Building No.13, Room 308 Haidian District, P.O. Box 165 BEIJING 100036 China Tel. +86 10 6816 0825 Fax +86 10 6823 9572 e-mail: yangxing@cie-info.org.cn URL: http://www.cie-info.org.cn	Mr. Runhua **LIN** Deputy Secretary General Chinese Institute of Electronics - CIE Puhuinanli Building No.13 Haidian District, P.O. Box 165 BEIJING 100036 China Tel. +86 10 6827 6577 Fax +86 10 6823 9572 e-mail: linrunhua@cie-info.org.cn

CROATIA Croatian Information Technology Association - CITA Ilica 191e/II HR-10000 ZAGREB, Croatia Tel. +385 1 2222 722 Fax +385 1 2222 723 e-mail: hiz@hiz.hr URL: www.hiz.hr	Mr. Marijan **FRKOVIC** President Croatian Information Technology Association (CITA) Ilica 191e/II HR-10000 ZAGREB, Croatia Tel. +385 1 301 7070 Fax +385 1 222 2723 e-mail: mfrkovic@hiz.hr
CYPRUS Cyprus Computer Society PO Box 27038 CY-1641 NICOSIA, Cyprus Tel. +357 22 460680 Fax +357 22 767349 e-mail: info@ccs.org.cy URL: http://www.ccs.org.cy	Mr. Costas **AGROTIS** Government of Cyprus Ministry of Finance Director, Department IT Services NICOSIA, Cyprus Tel. +357 22 806300, +357 22 754474 Fax +357 22 462876, +357 22 767349 e-mail: cagrotis@cytanet.com.cy
CZECH REPUBLIC Czech Society for Cybernetics and Informatics Pod vodarenskou vezi 2 CZ-182 07 PRAHA 8 - Liben Czech Republic Tel. +420 2 66 053 901 Fax +420 2 85 885 789 e-mail: cski@utia.cas.cz URL: http://www.cski.cz	Prof. Jaroslav **POKORNY** Charles University in Prague Faculty of Mathematics and Physics Dept. of Software Engineering Malostranské nám. 25 CZ-118 00 PRAHA 1, Czech Republic Tel. +420 221914 264 Fax +420 221914 323 e-mail: pokorny@ksi.ms.mff.cuni.cz
DENMARK Danish IT Society Bredgade 25A DK-1260 COPENHAGEN K, Denmark Tel. +45 33 11 15 60 Fax +45 33 93 15 80 e-mail: dit@dit.dk URL: http://dit.dk	Prof. Jan **PRIES-HEJE** Roskilde University Dept. of Communication, Business & IT Build. 42.2, Universitetsvej 1 DK-4000 ROSKILDE, Denmark Tel. +45 46 743051 e-mail: janph@ruc.dk
FINLAND TIVIA Lars Sonckin kaari 12 FI-02600 ESPOO Finland Tel. +358 20 741 9898 Fax +358 20 741 9889 e-mail: natalia.kallio@tivia.fi URL: http://www.tivia.fi	Mr. Mika **HELENIUS** TIVIA Lars Sonckin kaari 12 FI-02600 ESPOO Finland Tel. +358 400 264 432 Fax +358 20 741 9889 e-mail: mika.helenius@tivia.fi
FRANCE Société Informatique de France - SIF 23 Boulevard de France FR-91037 EVRY France Tel. +33 972 342 200 e-mail: secretariat@societe-informatique-de-france.fr URL: www.societe-informatique-de-france.fr	Prof. Bernard **CORNU** 115 Boulevard du Pont Achard FR-86000 POITIERS France Tel. +33 674 976 590 e-mail: cornubernard@gmail.com

GERMANY Gesellschaft für Informatik e.V. (GI) Wissenschaftszentrum Ahrstrasse 45 DE-53175 BONN Germany Tel. +49 228 302 145 Fax +49 228 302 167 e-mail: gs@gi-ev.de URL: http://www.gi-ev.de	Prof. Dr. Kai **RANNENBERG** Deutsche Telekom Chair of Mobile Business and Multilateral Security Goethe University Frankfurt Theodor-W. Adorno-Platz 4 DE-60629 FRANKFURT/Main Germany Tel. +49 69 798 34701 Fax +49 69 798 35004 e-mail: kai.rannenberg@m-chair.de
HUNGARY John v. Neumann Computer Society (NJSZT) P.O.B. 201 HU-1364 BUDAPEST Hungary Tel. +36 1 472 2730 Fax +36 1 472 2739 e-mail: secretariat@njszt.hu URL: http://www.njszt.hu	Prof. Maria **RAFFAI** Szechenyi Istvan University Faculty for Information Science and Electrical Engineering Egyetem ter 1 HU-9026 GYÖR, Hungary Tel. +36 96 613 525 Fax +36 96 613 525 e-mail: maria.raffai@gmail.com
INDIA Computer Society of India (CSI) Samruddhi Venture Park Unit No. 3, 4th floor, MIDC Andheri (E.) MUMBAI 400 093, Maharashtra India Tel. +91 22 2926 1700 Fax +91 22 2830 2133 e-mail: hq@csi-india.org URL: http://www.csi-india.org	Dr. Sanjay **MOHAPATRA** Computer Society of India (CSI) Samruddhi Venture Park Unit No. 3, 4th floor, MIDC Andheri (E.) MUMBAI 400 093, Maharashtra India email: president@csi-india.org
IRAN Computer Society of Iran (CSI) Apt.16, Fl.4, No.26 Valiollah St. Azadi Avenue TEHRAN, PO Code: 1458835767 Iran Tel. +98 21 66032000 Fax +98 21 66021149 e-mail: info@csi.org.ir URL: http://csi.org.ir/en/	Dr. Shaahin **HESSABI** Dept. of Computer Engineeriung Sharif University of Technology Room 724 Azadi Avenue TEHRAN Iran Tel. +98 21 6616 6638 e-mail: hessabi@sharif.edu
IRELAND The Irish Computer Society 87-89 Pembroke Road Ballsbridge DUBLIN 4 Ireland Tel. +353 1 644 7820 Fax +353 1 662 0224 e-mail: info@ics.ie URL: http://www.ics.ie	Mr. Declan **BRADY** c/o The Irish Computer Society 87-89 Pembroke Road Ballsbridge DUBLIN 4 Ireland Tel. +353 1 644 7820 Fax +353 1 662 0224 e-mail: ifip@ics.ie / bradydt@eircom.net
ITALY Associazione Italiana per l' Informatica ed il Calcolo Automatico (A.I.C.A.) Piazzale R. Morandi, 2 IT-20121 MILANO Italy Tel. +39 02 764 5501 Fax +39 02 760 15717 e-mail: aica@aicanet.it URL: http://www.aicanet.it	Mr. Paolo **SCHGÖR** AICA - Associazione Italiana per l`Informatica ed il Calcolo Automatico P.le Rodolfo Morandi, 2 20121 MILANO Italy Tel. +39 02 764 55045 Fax +39 02 760 15717 e-mail: p.schgor@aicanet.it

JAPAN Information Processing Society of Japan (IPSJ) Kagaku-kaikan (Chemistry Hall) 4F 1-5 Kanda-Surugadai, Chiyoda-ku TOKYO 101-0062, Japan Tel. +81 3 3518 8374 Fax +81 3 3518 8375 e-mail: sig@ipsj.or.jp URL: http://www.ipsj.or.jp	Prof. Yuko **MURAYAMA** Tsuda College Department of Computer Science 2-1-1 Tsuda-machi, Kodaira-shi JP-TOKYO 187-8577 Japan Tel. +81 42 342 5476 e-mail: yuko.murayama@ifip.org
Rep. of KOREA The Korean Institute of Information Scientists and Engineers (KIISE) Room 401, Meorijae Bldg. 984-1 Bangbae-3 dong, Seocho-gu SEOUL 137 849, Rep. of Korea Tel. +82 2 588 9246 Fax +82 2 521 1352 e-mail: kiise@kiise.or.kr URL: http://www.kiise.or.kr/eng	Prof. Jee-In **KIM** Konkuk University Department of Software HCI Lab, New Millennium Hall 1205 120 Neungdong-ro Gwangjin-Gu SEOUL Rep.of Korea Tel. +82 2 450 3540 e-mail: jnkm@konkuk.ac.kr
LITHUANIA Lithuanian Computer Society - LIKS Gelezinio Vilko g. 12-123 LT-01108 VILNIUS Lithuania Tel. +370 2 62 05 36 Fax +370 2 61 99 05 e-mail: liks@liks.lt URL: http://www.liks.lt	Dr. Saulius **MASKELIUNAS** Vilnius University Institute of Mathematics and Informatics Akademijos str. 4 LT-08663 VILNIUS Lithuania Tel. +370 5 210 9342 Fax +370 5 272 0209 e-mail: saulius.maskeliunas@mii.vu.lt
NETHERLANDS KNVI Koninklijke Nederlandse Vereniging van Informatieprofessionals MOS B.V. t.a.v. de KNVI Postbus 1058 NL-3860 BB NIJKERK The Netherlands Tel. +31 33 2473 427 e-mail: knvi@mos-net.nl URL: http://www.knvi.net/	Dr. Wouter **BRONSGEEST** Belastingdienst / Centrum voor Kennis en Communicatie Team UX en Team Projectmanagement Herman Gorterstraat 75 NL-3511 EW UTRECHT The Netherlands Tel. +31 06 18603457 e-mail: w..bronsgeest@belastingdienst.nl wouter.bronsgeest@planet.nl
NEW ZEALAND Institute of IT Professionals New Zealand PO Box 10044 WELLINGTON 6143 New Zealand Tel. +64 4 473 1043 Fax +64 4 473 1025 e-mail: info@iitp.org.nz URL: http://www.iitp.org.nz	Ms. Elizabeth **EASTWOOD** Institute of IT Professionals New Zealand PO Box 10044 WELLINGTON 6143 New Zealand Tel. +64 4 473 1043 Fax +64 4 473 1025 e-mail: elizabeth.eastwood@iitp.org.nz
NORWAY Norwegian Computer Society (NCS) Mollergata 24 NO-0179 OSLO, Norway Tel. +47 22 36 48 80 Fax +47 22 36 37 01 e-mail: post@dataforeningen.no URL: http://www.dataforeningen.no	Mr. Sindre **RØSVIK** Giske commune NO-6050 NORWAY Tel. +47 70188012 e-mail: sinro@online.no

POLAND Polish Academy of Sciences P.O. Box 24 Plac Defilad 1 PL-00 901 WARSAW, Poland Tel. +48 22 620 49 70 Fax +48 22 620 49 10 e-mail: jan.weglarz@put.poznan.pl URL: http://www.pan.pl	Prof. Jerzy **NAWROCKI** Poznan Univ. of Technology Inst. of Computing Science ul.Piotrowo 2 PL-60-965 POZNAN Poland Tel. +48 61 665 3422 Fax +48 61 877 1525 e-mail: jerzy.nawrocki@put.poznan.pl
PORTUGAL Ordem dos Engenheiros Av. António Augusto de Aguiar n.º3D PT-1069-030 - LISBOA Portugal Tel. +351 213 132 607 Fax +351 213 132 615 e-mail: jvlopes@ordemdosengenheiros.pt URL: http://www.ordemengenheiros.pt	Prof. Ricardo J. **MACHADO** ALGORITMI Research Centre Dept. Information Systems Escola de Engenharia Universidade do Minho Campus Azurém PT-4800-058 GUIMARAES Portugal Tel. +351 253 510 319 / 790 Fax +351 253 510 300 e-mail: rmac@dsi.uminho.pt
SERBIA Informatics Association of Serbia (IAS) Kneza Milosa 9 RS-11000 BEOGRAD Serbia Tel. +381 63 253 583 email: office@dis.org.rs	Mr. Nikola **MARKOVIC** President Informatics Association of Serbia (IAS) Kneza Milosa 9 RS-11000 BEOGRAD Serbia Tel. +381 63 253 583 e-mail: nimar@rcub.bg.ac.rs
SLOVAKIA Slovak Society for Computer Science FMFI UK, Mlynska dolina SK-842 48 BRATISLAVA Slovakia Tel. +421 2 65426635 Fax +421 2 65427041 e-mail: kancelaria@informatika.sk URL: http://www.informatika.sk	Dr. Igor **PRIVARA** Slovak Society for Computer Science FMFI UK, Mlynska dolina SK-842 48 BRATISLAVA Slovakia e-mail: igor.privara@gmail.com
SLOVENIA Slovenian Society INFORMATIKA Litostrojska cesta 54 SI-1000 LJUBLJANA Slovenia Tel. +386 41 735 054 Fax +386 1 2415 344 e-mail: info@drustvo-informatika.si URL: http://www.drustvo-informatika.si	Mr. Niko **SCHLAMBERGER** President Slovenian Society INFORMATIKA Litostrojska cesta 54 SI-1000 LJUBLJANA Slovenia Tel. +386 41 735 054 Fax +386 1 2415 344 e-mail: niko.schlamberger@gmail.com
SOUTH AFRICA Institute of Information Technology Professionals South Africa IITPSA NPC P.O. Box 1714 Halfway House ZA-1685 GAUTENG South Africa Tel. +27 11 315 1319 Fax +27 11 315 2276 e-mail: ceo@iitpsa.org.za URL: http://www.iitpsa.org.za	Prof. Rossouw **von SOLMS** Office R102 School of ICT P.O. Box 77000 NMMU 6031 PORT ELIZABETH South Africa Tel. +27 41 504 3604 Fax +27 41 504 9604 e-mail: rossouw@nmmu.ac.za rossouw.vonsolms@nmmu.ac.za

SPAIN ATI Asociación de Técnicos de Informática Avila 48-50 ES-08020 BARCELONA Spain Tel. +34 93 412 52 35 Fax +34 93 412 77 13 e-mail: secregen@ati.es URL: http://www.ati.es	Prof. Carlos **JUIZ** University of the Balearic Islands Department of Mathematics and Computer Science Ctra. Valldemossa km 7,5 Anselm Turmeda building ES-07122 PALMA DE MALLORCA Spain Tel. +34 97 1173427 e-mail: cjuiz@uib.es
SRI LANKA The Computer Society of Sri Lanka CSSL Professional Centre 275/75 Stanley Wijesundera Mawatha COLOMBO 7, Sri Lanka Tel. +94 11 471 3336 Fax +94 11 250 8009 e-mail: info@cssl.lk URL: http://www.cssl.lk	Mr. Yasas **ABEYWICKRAMA** The Computer Society of Sri Lanka CSSL Professional Centre 275/75 Stanley Wijesundera Mawatha COLOMBO 7 Sri Lanka Tel. +94 71 533 2362 Fax +94 11 250 8009 e-mail: yvabeywickrama@gmail.com info@cssl.lk
SWEDEN Dataföreningen i Sverige Kungsbro Strand 29 SE-112 26 STOCKHOLM Sweden Tel. +46 8 587 434 00 Fax +46 8 587 434 60 e-mail: info@dfs.se URL: http://www.dfs.se	Prof. Jan **GULLIKSEN** KTH-Royal Institute of Technology Department of Human Computer Interaction School of Computer Science and Communication Lindstedtsvägen 5 SE-10044 STOCKHOLM Sweden Tel. +46 730 373930 Fax +46 8 790 9099 e-mail: gulliksen@kth.se
SWITZERLAND Schweizer Informatik Gesellschaft SI Effingerstrasse 19 CH-3008 BERN Switzerland Tel. +41 32 512 23 33 e-mail: admin@s-i.ch URL: http://www.s-i.ch	Prof. Raymond **MOREL** Chair of SIC (Swiss IFIP Committee) 98 chemin De-La-Montagne CH-1224 CHÊNE-BOUGERIES GENEVA, Switzerland Tel. +41 79 203 5118 e-mail: raymond.morel@unige.ch
TUNISIA Ecole Superieure des Communications De Tunis (Sup'Com) Cite technologique des Communications El Ghazala, 2088 Ariana Tunisie Tel. +216 71 857 000 Fax +216 71 856 829 e-mail: adel.ghazel@supcom.rnu.tn URL: http://www.supcom.mincom.tn	Prof. Dr. Mourad **ZGHAL** Associate Professor Ecole Supérieure des Communications de Tunis (Sup'Com) Université de Carthage Cité Technologique des Communications El Ghazala, 2083 Ariana, Tunisie Tel. (+216) 71857000 (#1025) Fax: (+216) 71856829 e-mail: mourad.zghal@supcom.rnu.tn Web: www.supcom.mincom.tn
UKRAINE Ukrainian Federation of Informatics (UFI) 031514 Smilyanska UA-03151 KYIV Ukraine Tel. +380 44 246 2784 Fax +380 44 246 2784 e-mail: inf@ufi.org.ua	Prof. Dr. Igor **GREBENNIK** Kharkiv National University of Radio Electronics Faculty of Computer Science 14, Lenin Ave UA-61166 KHARKIV Ukraine Tel. +380 67 922 6136 Fax +380 57 702 1017 e-mail: igorgrebennik@gmail.com

UNITED ARABIAN EMIRATES Hamdan Bin Mohammed Smart University c/o Mrs. Serine El Salhat Director of Chancellor`s Office & International Cooperation P.O. Box 71400 DUBAI, United Arab Emirates Tel. +971 4 424 1105 Fax +971 4 439 3905 e-mail: s.elsalhat@hbmsu.ac.ae URL: http://www.hbmsu.ac.ae	Dr. Mansoor **AL AWAR** Chancellor Hamdan Bin Mohammed Smart University P.O. Box 71400 DUBAI United Arab Emirates Tel. +971 4 424 1100 Fax +971 4 439 3900 e-mail: ic@hbmsu.ac.ae
UNITED KINGDOM BCS The Chartered Institute for IT c/o Ms. Dianne Geldenhuis The Davidson Building 5 Southampton Street LONDON WC2E 7HA United Kingdom Tel. +44 1793 417 750 Fax +44 1793 417 444 e-mail: dianne.geldenhuis@bcs.uk URL: http://www.bcs.org	Prof. Andrew **McGETTRICK** University of Strathclyde Department of Computer and Information Sciences Livingstone Tower 26 Richmond Street GLASGOW G1 1XH United Kingdom Tel. +44 141 548 3589 e-mail: andrew.mcgettrick@cis.strath.ac.uk
ZIMBABWE Computer Society of Zimbabwe P.O. Box CY 164 Causeway HARARE, Zimbabwe Tel. +263 4 250 489 Fax +263 4 708 861 e-mail: info@csz.org.zw URL: http://www.csz.org.zw	Mr. Lawrence **GUDZA** 10 Croborough Road Mt. Pleasant HARARE Zimbabwe e-mail: ldgudza@gmail.com

International Members at Large

ACM Association for Computing Machinery c/o Ms. Patricia Ryan, COO 2 Penn Plaza, Suite 701 NEW YORK, NY 10121-0701, USA Tel. +1 212 626 0515 Fax +1 212 944 1318 e-mail: ryanp@hq.acm.org URL: http://www.acm.org	Dr. Gerrit **van der VEER** Voorhof 33 NL-8212 CP LELYSTAD The Netherlands Tel. +31 20 598 7764 e-mail: gerrit@acm.org
CLEI Centro Latinoamericano de Estudios en Informatica Prof. Héctor Cancela Escuela de Ingenieria Informatica PUCV Av Brasil, 2241 CL- VALPARAISO, Chile Tel. +56 32 227 3763 Fax +56 32 221 2746 e-mail: cancela@fing.edu.uy URL: http://www.clei.cl	Prof. Héctor **CANCELA** Instituto de Computación Facultad de Ingeniería Universidad de la República - Uruguay J. Herrera y Reissig 565 UY-11300 MONTEVIDEO Uruguay Tel. +598 2 7114244 ext. 1110 Fax +598 2 7110469 e-mail: cancela@fing.edu.uy

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Prof. Michael G. **HINCHEY** (IE) IFIP Vice President Co-Director Lero – The Irish Software Eng. Research Centre University of Limerick LIMERICK Ireland Tel. +353 61 233607 Fax +353 61 213036 e-mail: mike.hinchey@lero.ie	Dr. Gabriela **MARIN RAVENTOS** (CR) Centro Latinoamericano de Estudios en Informática (CLEI) Directora CITIC Universidad de Costa Rica Sede "Rodrigo Facio Brenes" Montes de Oca CR-2060 SAN JOSE Costa Rica Tel. +506 2511 8016 Fax +506 2224 8026 e-mail: gabrielamarinraventos@gmail.com
Prof. Dr. Franz Josef **RAMMIG** (DE) Heinz Nixdorf Institut Universität Paderborn Fürstenallee 11 DE-33102 PADERBORN Germany Tel. +49 5251 60 6500 Fax +49 5251 60 6502 e-mail: franz@uni-paderborn.de franz@upb.de	Prof. A Min **TJOA** (AU) Vienna University of Technology Institute of Software Technology Favoritenstr. 9 -11/188 AT-1040 VIENNA, Austria Tel. +43 1 58801 18801 Fax +43 1 58801 18899 e-mail: amin@ifip.org
Prof. Michael **GOEDICKE**, DE paluno The Ruhr Institute for Software Technology University of Duisburg-Essen Gerlingstrasse 16 DE-45127 ESSEN Germany Tel. +49 201 183 3481 Fax +49 201 183 4698 e-mail: michael.goedicke@paluno.uni-due.de	Mrs. Moira **de ROCHE** (ZA) 28 Hunter Street Table View ZA-7441 CAPE TOWN South Africa e-mail: moiradr69@gmail.com

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IMIA International Medical Informatics Association 81 Boulevard de la Cluse CH-1205 GENEVA Switzerland Tel. +41 22 372 7249 e-mail: imia@imia-services.org URL: http://www.imia.org	Prof. Hiroshi **TAKEDA** Osaka University Hospital Graduate School of Health Care Sciences Jikei Institute 1-2-8 Miyahara, Yodogawa-ku OSAKA 532-0003 Japan e-mail: takeda@hp-info.med.osaka-u.ac.jp
SEARCC South East Asia Regional Computer Confederation SEARCC Secretariat c/o Australian Computer Society PO Box Q534 Queen Victoria Building SYDNEY NSW 1230, Australia Tel. +61 414 672 161 Fax +61 2 9299 3997 e-mail: sg@searcc.org URL: http://www.searcc.org	Mr. Yohan **RAMASUNDARA** SEARCC Secretariat c/o Australian Computer Society PO Box Q534 Queen Victoria Building SYDNEY NSW 1230 Australia Tel. +61 414 672 161 Fax +61 2 9299 3997 e-mail: sg@searcc.org
VLDB The Very Large Data Bases Endowment c/o Prof. Renee Miller Dept. of Computer Science University of Toronto 6 King's College Rd., rm. 283 TORONTO, ON M5S 1A4, Canada e-mail: miller@cs.toronto.edu URL: http://www.vldb.org	Prof. Renee **MILLER** University of Toronto Dept.of Computer Science 6 King's College Rd. TORONTO, ON M5S 1A4 Canada e-mail: miller@cs.toronto.edu

TECHNICAL COMMITTEES AND WORKING GROUPS

TC 1 - Foundations of Computer Science

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URL: http:// www.ifip-tc1.org

Chair
Prof. Jacques SAKAROVITCH*, FR
LTCI, CNRS / Télécom ParisTech
Département Informatique et
Réseaux
46, rue Barrault
FR-75013 PARIS Cedex 13
France
Tel. +33 1 45 81 80 60
Fax +33 1 45 81 31 19
e-mail: sakarovitch@enst.fr

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**) Member recommended by TC1
***) Distinguished Fellow member

WG 1.2 - Descriptional Complexity

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URL: http://www.informatik.uni-giessen.de/ifipwg1.2/

Chair
Prof. Martin KUTRIB
Universität Giessen
Institut für Informatik
Arndtstr. 2
DE-35392 GIESSEN
Germany
Tel. +49 641 99 32140
e-mail: kutrib@informatik.
uni-giessen.de

Vice-Chair
Prof. Rogério REIS
Universidade do Porto
Departamento de Ciência de
Computadores
R. do Campo Alegre, 1021/1055
PT-4169-007 PORTO
Portugal
Tel. +351 220 402 927
e-mail: rvr@dcc.fc.up.pt

Secretary
Dr. Andreas MALCHER
Universität Giessen
Institut für Informatik
Arndtstr. 2
DE-35392 GIESSEN
Germany
Tel. + 49 641 99 32143
Fax + 49 641 99 32149
e-mail:
andreas.malcher@informatik.
uni-giessen.de

CA	Cezar Campeanu	DE	Detlef Wotschke	US	Manuel Blum
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WG 1.3 - Foundations of Systems Specification

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URL: http://ifipwg13.cs.ovgu.de/

Chair

Prof. Dr. Lutz SCHRÖDER
Friedrich-Alexander Universität Erlangen-Nürnberg
Department of Computer Science
Martenstraße 3
DE-91058 ERLANGEN
Germany
Tel. +49 9131 85 64059
e-mail: lutz.schroeder@fau.de

Vice-Chair

Prof. Markus ROGGENBACH
University of Wales Swansea
Department of Computer Science
Singleton Park
SWANSEA SA2 8PP
United Kingdom
Tel. +44 1792 51 3578
e-mail:
m.roggenbach@swan.ac.uk

AR	Carlos G. Lopez Pombo	DE	Martin Wirsing	IT	Egidio Astesiano*
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*) member emeritus

WG 1.5 - Cellular Automata and Discrete Complex Systems

est. 1994, dissolved 2004, re-established 2008, revised 2009

URL: http://www.iec.hiroshima-u.ac.jp/ifip15

Chair
Dr. Pedro P.B. DE OLIVEIRA
Universidade Presbiteriana Mackenzie
Faculdade de Computação e Informática
Rua da Consolação 896
BR-01302-907 SÃO PAULO, SP
Brazil
Tel. +55 12 98149 8758
e-mail: pedrob@mackenzie.br
URL: http://professor.mackenzie.br/pedrob

Vice-Chair
Dr. Nazim FATÈS
Inria Nancy - Grand Est
615 rue du Jardin Botanique
FR-54 600 VILLERS-LÈS-NANCY
France
Tel: +33 3 54 95 85 16
e-mail: nazim.fates@loria.fr
URL: http://www.loria.fr/~fates

Secretary
Dr. Katsunobu IMAI
Hiroshima University
Graduate School of Engineering
1-4-1, Kagamiyama
JP-HIGASHI-HIROSHIMA, 739-8527,Japan
Tel. +81 824 24 7708
Fax +81 824 22 7195
e-mail: imai@hiroshima-u.ac.jp
URL: http://www.iec.hiroshima-u.ac.jp/~imai

BE	Andre Barbe*	FR	Julien Cervelle	IT	Alberto Dennunzio
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FI	Ville Salo				

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est. 1998
URL: http://cbr.uibk.ac.at/ifip-wg1.6/

Chair
Prof. Georg MOSER
University of Innsbruck
Institute of Computer Science
Technikerstrasse 21a
AT 6020 INNSBRUCK
Austria
Tel. +43 512 507 53213
e-mail:
georg.moser@uibk.ac.at

Secretary
Dr. Ugo DAL LAGO
Universita degli Studi di Bologna
Dipartimento di Informatica-Scienza e Ingegneria
Mura Anteo Zamboni, 7
IT-40127 BOLOGNA
Italy
Tel. +39 05 1209 4991
Fax +39 05 1209 4510
e-mail: dallago@cs.unibo.it

AT	Aart Middeldorp	FR	Florent Jacquemard	JP	Tetsuo Ida
DE	Jürgen Avenhaus*	FR	Jean-Pierre Jouannaud*	JP	Yoshihito Toyama
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*) Honorary member

WG 1.7 Theoretical Foundations of Security Analysis and Design

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Chair

Prof. Riccardo FOCARDI
Università Ca' Foscari di Venezia
Dipartimento di Informatica
Via Torino 155
IT-30172 MESTRE
Italy
Tel. +39 041 2348438
Fax +39 041 2348419
e-mail: focardi@dsi.unive.it

Vice-Chair

Prof. Véronique CORTIER
LORIA
Equippe Cassis, Bât. A
Campus Scientifique, BP 239
FR-54506 VANDOEUVRE-LES-NANCY Cedex
France
Tel. +33 383 593055
Fax +33 383 278319
e-mail: cortier@loria.fr

Secretary

Prof. Luca VIGANÒ
Department of Informatics
King's College London
Strand
LONDON WC2R 2LS
United Kingdom
Tel. +44 20 7848 2078
e-mail: luca.vigano@kcl.ac.uk

AU	Carroll Morgan	FR	Dominique Bolignano	LU	Peter Ryan
BE	Jean-Jacques Quisquater	FR	Hubert Comon-Lundh	NL	Sandro Etalle
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ES	Gilles Barthe	IT	Pierpaolo Degano		

WG 1.8 – Concurrency Theory

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URL: www.concurrency-theory.org/organizations/ifip

Chair

Dr. Ilaria CASTELLANI
Institut National de Recherche
en Informatique et Automatique
(INRIA)
2004, route des Lucioles,
BP 93
FR-06902 SOPHIA ANTIPOLIS
France
e-mail: ilaria.castellani@inria.fr

Secretary

Prof. Mohammad Reza MOUSAVI
University of Leicester
Department of Informatics
University Road
LEICESTER LE1 7RH
United Kingdom
e-mail: mm789@leicester.ac.uk

AR	Pedro D'Argenio	FR	Vincent Danos	IT	Flavio Corradini
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URL: https://www.lri.fr/~filliatr/1.9/

Chair
Dr. Jean-Christophe FILLIATRE
Université Paris-Sud
LRI – bâtiment 650
FR-91405 ORSAY Cedex
France
Tel. +33 1 69 15 70 48
Fax +33 1 69 15 65 79
e-mail:
jean-christophe.filliatre@lri.fr

Vice-Chair
Prof. Jim WOODCOCK
University of York
Department of Computer Science
Deramore Lane
YORK YO10 5GH
United Kingdom
Tel. +44 1904 325 400
e-mail:
jim.woodcock@york.ac.uk

Secretary
Dr. Natarajan SHANKAR
SRI International
333 Ravenswood Ave.
MENLO PARK, CA 94025-3493
USA
Tel. +1 415 859 5272
e-mail: shankar@csl.sri.com

AR	Marcello Frias	DE	Andrey Rybalchenko	GB	Matthew Parkinson
BE	Bart Jacobs	DE	Gerhard Schellhorn	US	Ernie Cohen
CH	Peter Mueller	DK	Joseph Kiniry	US	Klaus Havelund
CH	Alexander Summers	FR	Sandrine Blazy	US	Gary T. Leavens
DE	Tiziana Margaria	GB	Andrew Ireland	US	Pete Manolios
DE	Andreas Podelski	GB	Cliff Jones	US	Shaz Quadeer

WG 1.10 – String Algorithmics & Applications
est. 2015

Chair
Prof. Costas ILIOPOULOS
University of London
Kings's College London
Dept.of Computer Science
The Strand,
LONDON WC2R 2LS
United Kingdom
Tel. +44 20 7848 2809
Fax +44 870 131 3372
e-mail: costas.iliopoulos@kcl.ac.uk

Secretary
Prof. William F. SMYTH
McMaster University
Department of Computer Science & Systems, ITB 130
1280 Main Street West
HAMILTON, ON L8S4K1
Canada
Tel. +1 905 525 9140
Fax +1 905 524 0340
e-mail: smyth@mcmaster.ca

AU	Alistair Moffat	FR	Gregory Kucherov	IT	Alberto Apostolico
BD	M. Sohel Rahman	FR	Thierry Lecroq	IT	Roberto Grossi
CA	Lucian Ilie	FR	Laurent Mouchard	JP	Hideo Bannai
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FI	Esko Ukkonen	IL	Moshe Lewenstein	ZA	Bruce Watson
FR	Marie-Pierre Beal				

TC 2 - Software: Theory and Practice

est. 1962, revised 1982, 1990
URL: https://ifip-tc2.paluno.uni-due.de

Chair
Prof. Jerzy NAWROCKI, PL
Poznan Univ. of Technology
Inst. of Computing Science
ul. Piotrowo 2
PL-60-965 POZNAN
Poland
Tel. +48 61 665 3422
Fax +48 61 877 1525
e-mail:
jerzy.nawrocki@put.poznan.pl

Vice-Chair
Prof. Michael GOEDICKE, DE
paluno The Ruhr Institute for
Software Technology
University of Duisburg-Essen
Gerlingstrasse 16
DE-45127 ESSEN
Germany
Tel. +49 201 183 3481
Fax +49 201 183 4698
e-mail:
michael.goedicke@paluno.uni-
due.de

Secretary
Dr. Julia LAWALL, FR
INRIA Paris-Rocquencourt
LIP6
Boîte courrier 169
4 place Jussieu
FR-75252 PARIS Cedex 05
France
Tel. +33 1 44 27 88 52
e-mail: julia.lawall@lip6.fr

AR	Marcelo Frias	ES	Antonio Vallecillo	NZ	Elizabeth A. Kemp (SEARCC)
AT	Stefan Biffl	FI	Reima Suomi	PT	Fernando Brito e Abreu
BG	Sylvia Ilieva	FR	Charles Consel	RS	Nenad Stefanović
BR	Julio Leite	HU	Miklos Biro	SI	Marko Bajec
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CLEI	Hernan Astudillo	IT	Paolo Ciancarini	UA	Nikolay Sidorov
CZ	Přemysl Brada	JP	Atsushi Igarashi	US	Will Tracz (ACM)
DE	Manfred Paul	NL	Johan Jeuring	ZA	Bruce Watson

ex-officio members: WG Chairs

WG 2.1 - Algorithmic Languages and Calculi

est. 1962, revised 1963, 1990, 1992
URL: http://www.ifipwg21.org

Chair
Prof. Caroll MORGAN
The University of New South
Wales
School of Computer Science and
Engineering
K17-201D
SYDNEY NSW 2052
Australia
Tel. +61 2 9385 5317 x 55317
Fax +61 2 9385 5995 x 55995
e-mail:
carollm@cse.unsw.edu.au

Vice-Chair
Prof. Johan JEURING
Utrecht University
Department of Information and
Computing Sciences
Buys Ballot Laboratorium 571
P.O. Box 80.089
NL-3508 TB UTRECHT
The Netherlands
Tel. +31 30 2534115
Fax +31 30 2513791
e-mail: j.t.jeuring@uu.nl

Secretary
Prof. Dr. Ir. Tom SCHRIJVERS
KU Leuven
Department of Computer Science
Celestijnenlaan 200A
BE-3001 LEUVEN
Belgium
Tel. +32 16 327830
e-mail:
tom.schrijvers@cs.kuleuven.be

AU	Peter Höfner	GB	Ralf Hinze	NL	Doaitse Swierstra
CA	Hendrik J. Boom	GB	Graham Hutton	NL	Wouter Swierstra
CA	Jules Desharnais	GB	Cezar Ionescu	NZ	Walter Guttman
DE	Andres Löh	GB	Jos'e Pedro Magelhaes	PT	Jose Oliveira
DE	Bernhard Möller	GB	Conor McBride	SE	Nils Anders Danielsson
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GB	Roland Backhouse	KR	Bruno Oliveira	US	Yanhong A. Liu
GB	Jeremy Gibbons	NL	Lambert Meertens		

WG 2.2 - Formal Description of Programming Concepts

est. 1965, revised 1991
URL: http://wg22.labri.fr/

Chair
Dr. Igor WALUKIEWICZ
LaBRI
Université Bordeaux-1
351, Cours de la Libération
FR-33405 TALENCE Cedex
France
Tel. +33 5 40 00 66 03
Fax +33 5 40 00 66 69

Vice-Chair
Prof. Antonin KUCERA
Masaryk University
Faculty of Informatics
Botanicka 68a
CZ-60200 BRNO
Czech Republic
Tel. +420 549 494 374
Fax +420 549 497 434

Secretary
Prof. Dr. Markus MÜLLER-OLM
Westfälische Wilhelms-Universität Münster
Institut für Informatik
Einsteinstr. 62
DE-48149 MÜNSTER
Germany
Tel. +49 251 83 33765
Fax +49 251 83 33755

AR	Marcelo Frias
BE	Jean-Francois Raskin
DE	Javier Esparza
DE	Joost-Pieter Katoen
DE	Barbara Koenig
DE	Uwe Nestmann
DE	Ernst-Rüdiger Olderog
ES	Gilles Barthe
FR	Ahmed Bouajjani
FR	Stephan Merz
GB	Maciej Koutny
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GB	Andrzej Murawski
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GB	Pawel Sobocinski
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IT	Ugo Montanari
IT	Rocco De Nicola
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JP	Naoki Kobayashi
JP	Masahiko Sato
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NO	Einar Broch Johnsen
PL	Wojciech Penczek
PL	Andrzej Tarlecki
PT	Luis Caires
SE	Parosh Abdulla
SE	K.V.S. Prasad
ACM	Radu Grosu

WG 2.3 - Programming Methodology

est. 1969, revised 1991
URL: https://ifip-tc2-wg23.paluno.uni-due.de

Chair
Prof. Michael BUTLER
University of Southampton
School of Electronics& Computer Science
Highfield
SOUTHAMPTON SO17 1 BJ
United Kingdom
Tel. +44 23 8059 2435
Fax +44 23 8059 3045
e-mail: mjb@ecs.soton.ac.uk

Vice Chair
Dr. K. Rustan M. LEINO
Microsoft Research
One Microsoft Way
REDMOND, WA 98052
USA
Tel. +1 425 707 8045
Fax +1 425 936 7329
e-mail: leino@microsoft.com

Secretary
Dr. Rajeev JOSHI
NASA Jet Propulsion Laboratory (JPL) MS 301-237
4800 Oak Grove Drive
PASADENA, CA 91109
USA
Tel. + 1 818 393 7301
Fax + 1 818 354 3000
e-mail: rajeev.joshi@jpl.nasa.gov

AU	Ian Hayes
AU	Gerwin Klein
AU	Annabelle McIver
AU	Carroll C. Morgan
AU	Mark Utting
CA	Azadeh Farzan
CH	Bertrand Meyer
CH	Peter Mueller
DE	Manfred Broy
DE	Andreas Podelski
FR	Patrick Cousot
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US	Jayadev Misra
US	Natarajan Shankar
US	Emina Torlak
US	Pamela Zave

WG 2.4 - Software Implementation Technology

est. 1973, revised 1991, 1992, 2000
URL: http://www.ifip.org/wg-2.4

Chair
Prof. Frank TIP
Samsung Research America
665 Clyde Avenue
MOUNTAIN VIEW, CA 94043
USA
e-mail: ftip@samsung.com

Vice Chair
Dr. Anders MØLLER
Aarhus University
Dept.of Computer Science
IT-parken, Aabogade 34
DK-8200 AARHUS N
Denmark
Tel. +45 233 09994
e-mail: amoeller@cs.au.dk

Secretary
Prof. Welf LÖWE
Linnaeus University
Dept.of Computer Science
Vejdes Plats 7
SE-35195 VÄXJÖ
Sweden
Tel. +46 470 8495
e-mail: welf.lowe@lnu.se

AT	Jens Knoop
AT	Markus Schordan
CA	Ondrej Lhotak
CH	Thomas Gschwind
CH	Matthias Hauswirth
DE	Uwe Assmann
DE	Gerhard Goos
DE	Stefan Jähnichen
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DE	Arnd Poetzsch-Heffter
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US	Emina Torlak
US	William M. Waite
US	Kurt C. Wallnau
ZA	Willem Visser
ZA	Bruce Watson

WG 2.5 - Numerical Software

est. 1974, revised 1991 Aims and Scopes
URL: https://wg25.taa.univie.ac.at/

Chair
Prof. Ronald COOLS
KU Leuven
Department of Computer Science
Celestijnenlaan 200 A
BE-3001 HEVERLEE
Belgium
Tel. +32 0 16 327562
Fax +32 0 16 327996
e-mail:
ronald.cools@cs.kuleuven.be

Vice-Chair
Dr. W. Van SNYDER
NASA
Jet Propulsion Laboratory
4800 Oak Grove Drive
M/S 183-701
PASADENA, CA 91109-8099
U.S.A
Tel. +1 818 354 6271
Fax +1 818 393 5065
e-mail van.snyder@jpl.nasa.gov

Secretary
Prof. Wayne ENRIGHT
Dept. of Computer Science
University of Toronto
TORONTO, ON M5S 3G4
Canada
Tel. +1 416 978 5474
Fax +1 416 978 1931
e-mail: enright@cs.utoronto.ca

AT	Wilfried N. Gansterer
CA	Paul Muir
CN	Mo Mu
CN	Wu Zhang
DE	Ulrich Kulisch
DE	Siegfried M. Rump
ES	Amparo Gil
ES	Javier Segura
GB	Brian Ford
GB	Tim Hopkins
GB	Ian Reid
GB	Jennifer Scott
JP	Shigeo Kawata
JP	Mitsuhisa Sato
NO	Patrick Gaffney
NZ	Philip Sharp
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US	Ronald Boisvert
US	Andrew Dienstfrey
US	Craig Douglas
US	Michael Heroux
US	John R. Rice
US	Brian T. Smith
US	Ping Tak Peter Tang
US	Mladen A. Vouk

WG 2.6 - Database

est. 1974, revised 1985, 1991, 1997
URL: http://www.ifip.org/wg-2.6

Chair
Dr. Paolo CERAVOLO
Universita' degli Studi di Milano
Dipartimento di Informatica
via Bramante 65
IT-26013 CREMA
Italy
Tel. +39 02 503 30101
Fax +39 02 503 30074
e-mail: paolo.ceravolo@unimi.it

Vice-Chair
Dr. Philippe CUDRE-MAUROUX
University of Fribourg
Department of Informatics
Bd de Perolles 90
CH-1700 FRIBOURG
Switzerland
Tel. +41 26 300 8332
e-mail: phil@exascale.info

AE	Marcello Leida	DE	Erich J. Neuhold	IT	Ernesto Damiani
AT	Alexandra Mazak	DE	Thomas Risse	NL	Maurice van Keulen
AT	Robert Meersman	DE	Kai-Uwe Sattler	PL	Robert Wrembel
CH	Karl Aberer	IL	Avigdor Gal	PS	Mustafa Jarrar
CH	Paul Cotofrei				

WG 2.7/13.4 - User Interface Engineering

est. 1975, revised 1987, 1991
URL: http://ui-engineering.org

Chair
Prof. José Creissac CAMPOS
Universidade do Minho
Campus de Gualtar
Departamento de Informática
Escola de Engenharia
PT-4710-057 BRAGA
Portugal
Tel. +351 253 60 4447
Fax +351 253 60 4471
e-mail:
jose.campos@di.uminho.pt

Vice-Chair
Prof. Gaëlle CALVARY
Laboratoire d'Informatique de Grenoble
Campus de Grenoble
Bâtiment B
385 Rue de la Bibliothèque
BP 53
FR-38041 GRENOBLE Cedex 9 France
Tel. +33 4 7651 4854
Fax +33 4 7663 5686
e-mail: gaelle.calvary@imag.fr

Secretary
Prof. Judy BOWEN
University of Waikato
Computer Science Department
Hillcrest Road
HAMILTON 3240
New Zealand
Tel. +64 7 838 4547
Fax +64 7 858 5095
e-mail:
jbowen@cs.waikato.ac.nz

BE	Kris Luyten	DK	Morten Borup Harning	GB	Alan Dix
BR	Simone Barbosa	FR	Stéphane Chatty	GB	Harold Thimbleby
CA	Nicholas Graham	FR	Joëlle Coutaz	IE	Gavin Doherty
DE	Anke Dittmar	FR	Emmanuel Dubois	IT	Fabio Paterno
DE	Peter Forbrig	FR	Sophie Dupuy-Chessa	NL	Gerrit van der Veer
DE	Helmut G. Stiegler	FR	Laurence Nigay	NO	Hallvard Trætteberg
DE	Claus Unger	FR	Philippe Palanque	US	Len Bass
DE	Benjamin Weyers	FR	Marco Winckler	US	Rick Kazman
DE	Jürgen Ziegler				

WG 2.8 - Functional Programming

est. 1987, revised 1991
URL: http://www.cs.ox.ac.uk/ralf.hinze/WG2.8

Chair
Prof. Kathleen FISHER
Tufts University
Computer Science Department
Halligan Hall
161 College Ave.
MEDFORD, MA 02155
USA
Tel. +1 617 627 3831
e-mail: kfisher@eecs.tufts.edu

Secretary
Dr. Derek DREYER
Max Planck Institute for Software Systems
Campus E1.5
DE-66123 SAARBRÜCKEN
Germany
Tel. +49 681 9303 8701
Fax +49 160 9729 8151
e-mail: dreyer@mpi-sws.org

AU	Manuel M. T. Chakravarty
AU	Gabriele Keller
CH	Martin Odersky
DE	Peter Thiemann
DK	Olivier Danvy
DK	Fritz Henglein
FR	Xavier Leroy
FR	Francois Pottier
FR	Didier Remy
GB	Ralf Hinze
GB	Simon Marlow
GB	Conor McBride
GB	Simon Peyton Jones
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GB	David A. Turner
GB	Dimitrios Vytiniotis
GB	Philip Wadler
JP	Eijiro Sumii
NL	Rinus Plasmeijer
SE	Lennart Augustsson
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SE	John M. Hughes
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US	Greg Morrisett
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US	Benjamin Pierce
US	Norman Ramsey
US	John Reppy
US	Olin Shivers
US	Satnam Singh
US	Joe Stoy
US	David Walker
US	Stephanie Weirich
US	Steve Zdancewic

WG 2.9 - Software Requirements Engineering
est. 1993
URL: http://www.ifip.org/wg-2.9

Chair
Prof. Jane CLELAND-HUANG
University of Notre Dame
Dept. of Computer Science and Engineering
College of Engineering
257 Fitzpatrick Hall
NOTRE DAME, IN 46556
USA
Tel. +1 574 631 3637
e-mail: janeclelandhuang@nd.edu

Vice-Chair
Prof. Andrea ZISMAN
The Open University
Centre for Research in Computing
Walton Hall
MILTON KEYNES
Buckinghamshire MK7 6AA
United Kingdom
Tel. +44 1908 274066
e-mail: andrea.zisman@open.ac.uk

Secretary
Dr. Michael W. WHALEN
University of Minnesota
Dept. of Computer Science and Eng., 4-192 Keller Hall
200 SE Union Street
MINNEAPOLIS, MN 55455
USA
Tel. +1 612 624 5130
Fax +1 612 625 0572
e-mail: whalen@cs.umn.edu

AR	Sebastian Uchitel
BE	Axel van Lamsweerde
BR	Julio Caesar S. Leite
CA	Joanne Atlee
CA	Daniel M. Berry
CA	Marsha Chechik
CA	Daniela Damian
CA	John Mylopoulos
DE	Klaus Pohl
GB	Jeffrey Kramer
IE	Bashar Nuseibeh
IE	Lilana Pasquale
IE	Kevin Ryan
IT	Carlo Ghezzi
US	Annie I. Anton
US	Travis Breaux
US	Betty H.C. Cheng
US	Robert Hall
US	Robyn R. Lutz
US	William Robinson
US	Mats Heimdahl

WG 2.10 - Software Architecture

est. 2000
URL: http://www.ifip.org/wg-2.10

Chair
Prof. Philippe KRUCHTEN
University of British Columbia
Electrical and Computer Engineering
4046 - 2332 Main Mall
VANCOUVER, BC V6T 1Z4
Canada
Tel. +1 604 827 5654
e-mail: pbk@ece.ubc.ca

Vice-Chair
Mr. Rich HILLIARD
MIT
77 Massachusetts Avenue, 24-612
CAMBRIDGE, MA 02139
USA
Tel. +1 617 253 7787
e-mail: r.hilliard@computer.org

Secretary
Mr. John KLEIN
Carnegie Mellon University
Software Engineering Institute
4500 Fifth Avenue
PITTSBURGH, PA 15213-2612
USA
Tel. +1 412 268 4553
Fax +1 412 268 6257
e-mail: john.klein@computer.org

					Eltjo Poort
AU	Len Bass	GB	Eoin Woods	NL	Hans van Vliet
AU	Antony Tang	IN	Tadinada Venkata Prabhakar	NL	Christine Hofmeister
DK	Juha Savolainen	IT	Henry Muccini	US	Robert L. Nord
FI	Tomi Männistö	NL	Remco de Boer	US	Judith A. Stafford
GB	Christina Cooper-Bland	NL	Patricia Lago	US	
GB	Peter Robert Eeles				

WG 2.11- Program Generation

est. 2003
URL: http://wiki.hh.se/wg211

Chair
Dr. Ulrik Pagh SCHULTZ
University of Southern Denmark
The Maersk Mc-Kinney Moller Institute
Campusvej 55
DK-5230 ODENSE
Denmark
Tel. +45 65 50 35 70
Fax +45 66 15 76 97
e-mail: ups@mmmi.sdu.dk

Vice-Chair
Dr. Eric VAN WYK
University of Minnesota
Department of Computer Science and Engineering
4-192 Keller Hall
200 SE Union Street
MINNEAPOLIS, MN 55455
USA
Tel. +1 612 625 0329
Fax +1 612 625 0572
e-mail: evw@cs.umn.edu

AU	Anthony Sloane	FR	Sandrine Blazy	NL	Eelco Visser
CA	Jacques Carette	FR	Charles Consel	SE	Walid Taha
CA	Derek Rayside	FR	Julia Lawall	US	William R. Cook
CH	Markus Püschel	GB	Edwin Brady	US	Ewen Denney
DE	Christian Kästner	GB	Jeremy Gibbons	US	Oleg Kiselyov
DE	Ralf Lämmel	GB	Kevin Hammond	US	Tiark Rompf
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DE	Ina Schäfer	GB	Sven-Bodo Scholz	US	Jeremy Siek
DK	Robert Glück	GR	Yannis Smaragdakis	ZA	Bernd Fischer
FR	Emilie Balland	JP	Atsushi Igarashi		

WG 2.12/12.4 - Web Semantics

est. 2004, revised 2005
URL: http://www.ifip.org/wg-2.12

Chair
Prof. Elizabeth CHANG
The University of New South Wales, UNSW Canberra
The Australian Defence Force Academy
P.O. Box 7916
CANBERRA BC 2610
Australia
Tel. +61 2 626 88414
Fax +61 2 626 88450
e-mail: e.chang@adfa.edu.au

Vice-Chair
Prof. Ernesto DAMIANI
Universita degli Studi di Milano
Departimento di Tecnologie dell' Informazione
via Bremante, 65
IT-2603 CREMA
Italy
Tel. +39 03 738 98064
e-mail: edamiani@crema.unimi.it

Secretary
Dr. Omar HUSSAIN
The University of New South Wales, UNSW Canberra
The Australian Defence Force Academy
P.O. Box 7916
CANBERRA BC 2610
Australia
Tel. +61 2 626 88512
Fax +61 2 626 88450
e-mail: o.hussain@adfa.edu.au

AT	Robert A. Meersman	FR	Mohand-Said Hacid	US	Elisa Bertino
AU	Tharam Dillon	GB	Grigoris Antoniou	US	Christoph Bussler
AU	Zahir Tari	GB	David Bell	US	Stefan Decker
BE	Pierre-Yves Schobbens	GB	Carole Goble	US	Usama Fayyad
BE	Peter Spyns	IE	Manfred Hauswirth	US	Jiawei Han
CA	John Mylopoulos	IL	Avigdor Gal	US	Ling Liu
CA	Mihaela Ulieru	IT	Aldo Gangemi	US	Mukesh Mohania
CN	Qing Li	IT	Nicola Guarino	US	Masoud Nikravesh
CN	Lizhu Zhou	KR	Kyu-Young Whang	US	Amet Sheth
CN	Hai Zhuge	NL	Feng Ling	US	Katia Sycara
DE	York Sure	NL	Frank van Harmelen	US	Susan Urban
DE	Robert Tolkersdorf	NL	Wil van der Aalst	US	Ramasamy Uthurusamy
ES	Carles Sierra	PS	Mustafa Jarrar	US	Lotfi Zadeh
FR	Kokou Yetongnon				

WG 2.13 – Open Source Software
est. 2006
URL: http://www.ifip.org/wg-2.13

Chair
Prof. Tony WASSERMAN
Carnegie Mellon University
Silicon Valley
Building 23 (MS-11)
MOFFETT FIELD, CA 94035
USA
Tel. +1 650 335 2807
e-mail: tonyw@cmu.edu

Vice-Chair
Prof. Imed HAMMOUDA
Chalmers University of Technology
Software Engineering Division
Comp. Science & Engineering
SE-41296 GOTHENBURG
Sweden
Tel. +46 31 772 1208
e-mail: imed.hammoud@cse.gu.se

Secretary
Prof. Gregorio ROBLES
Universidad Rey Juan Carlos
Grupo de Sistemas y Connunicaciones
Campus de Fuenlabrada
Despacho 110
Departamental III
ES-28943 FUENLABRADA
Madrid, Spain
e-mail: grex@gsyc.urjc.es

AT	Stefan Koch	IT	Fulvio Frati	US	Kevin Crowston
BR	Fabio Kon	IT	Paolo Pumilia	US	Rishab Aiyer Ghosh
ES	Jesús Gonzalez-Barahona	IT	Alberto Sillitti	US	Scott Hissam
FI	Tommi Mikkonen	IT	Giancarlo Succi	US	Karim Lakhani
FR	Jean-Michel Dalle	SE	Jonas Gamalielsson	US	Greg Madey
IE	Joseph Feller	SE	Pär Ågerfalk	US	Walt Scacchi
IE	Brian Fitzgerald	SE	Bjorn Lundell	US	Megan Squire
IT	Ernesto Damiani				

WG 2.14/6.12/8.10 - Service-Oriented Systems
est. 2011, revised 2012
URL: http://ifip-wg-sos.deib.polimi.it/

Chair
Prof. Pierluigi PLEBANI
Politecnico di Milano
Dipartimento di Elettronica
Informazione e Biongegneria
Piazza Leonardo da Vinci, 32
IT-20133 MILANO
Tel. +39 02 2399 3473
Fax +39 02 2399 3411
e-mail:
pierluigi.plebani@polimi.it

Vice-Chairs
Prof. Winfried LAMERSDORF
Universität Hamburg
FB Informatik, VSYS
Vogt-Kölln-Str. 30
DE-22527 HAMBURG
Germany
Tel. +49 40 42883 2421/0
Fax +49 40 42883 2328
e-mail: lamersd@informatik.uni-hamburg.de

Prof. Eric DUBOIS
LIST Luxembourg Institute of Science and Technology
IT for Innovative Services
5 Avenue des Hauts Foumeaux
LU-4362 ESCH/ALZETTE
Luxembourg
e-mail: eric.dubois@list.lu

Secretary
Dr. Damian Andrew TAMBURRI
VU University Amsterdam
Department of Computer Science
De Boelelaan 1081a
NL-1081 HV AMSTERDAM
The Netherlands
Tel. +31 654 290399
e-mail:
damianandrew.tamburri@polimi.it

AT	Schahram Dustdar
CH	Cesare Pautasso
DE	Andreas Metzger
DE	Klaus Pohl
DE	Wolf Zimmerman
ES	Ernesto Pimentel
FI	Matti Rossi
FR	Nikolaos Georgantas
FR	Valerie Issarny
FR	Farouk Toumani
GB	Nikolay Mehandjiev
GB	George Spanoudakis
GB	Andrea Zisman
IT	Luciano Baresi
IT	Antonio Brogi
IT	Ernesto Damiani
IT	Elisabetta Di Nitto
IT	Flavio De Paoli
IT	Paulo Inverardi
IT	Barbara Pernici
IT	Marco Pistore
IT	Jacopo Soldani
IT	Massimo Villari
IT	Gianluigi Zavattaro
NL	Patricia Lago

WG 2.15/1.9 - Verified Software

WG 2.16 – Programming Language Design
est. 2012
URL: http://program-transformation.org/WGLD

Chair
Dr. Eelco VISSER
SCT / EWI
Delft University of Technology
Mekelweg 4
NL-2628 CD DELFT
The Netherlands
Tel. +31 15 27 87088
Fax +31 15 27 86632
e-mail: e.visser@tudelft.nl

Vice-Chair
Dr. Tijs VAN DER STORM
Centrum Wiskunde & Informatica (CWI)
Software Analysis and Transformation
Science Park 123
NL-1098 XG AMSTERDAM
The Netherlands
Tel. +31 20 592 4164
e-mail: storm@cwi.nl

Secretary
Mr. Jonathan EDWARDS
MIT
Software Design Group
MIT 32-G706
32 Vassar Str.
CAMBRIDGE, MA 02139
USA
Tel. +1 781 910 4480
e-mail: edwards@csail.mit.edu

BE	Tom Van Cutsem	GR	Yannis Smaragdakis	US	Matthew Flatt
BR	Roberto Ierusalimschy	NZ	James Noble	US	Sam Tobin-Hochstadt
CN	Sean McDirmid	UD	Jonathan Aldrich	US	Daan Leijen
DE	Stefan Hananberg	US	Andrew P. Black	US	Cristina Lopes
DE	Klaus Ostermann	US	Gilad Bracha	US	Jan-Willem Maessen
DE	Markus Voelter	US	Kim Bruce	US	Mark S. Miller
DK	Erik Ernst	US	Adam Chlipala	US	Ross Tate
FR	Manuel Serrano	US	William R. Cook	US	Mads Torgersen
GB	Edwin Brady	US	Robby Findler	US	Alessandro Warth
GB	Sophia Drossopoulou				

TC 3 - Education

est. 1963, revised 1992, 1995, 1998

Chair
Mr. Sindre RØSVIK, NO
Giske commune
NO-6050 NORWAY
Norway
Tel. +47 70188012
e-mail: sinro@online.no

Vice-Chair
Prof. Don PASSEY, GB
University of Lancaster
Department of Educational Research
County South, D25
LANCASTER LA1 4YD
United Kingdom
Tel. +44 1524 592314
e-mail: d.passey@lancaster.ac.uk

Secretary
Dr. Mary WEBB, GB
King's College London
Franklin-Wilkins Building
Waterloo Road
LONDON SE1 9NH
United Kingdom
Tel. +44 20 7848 3116
Fax +44 20 7848 3182
e-mail: mary.webb@kcl.ac.uk

AE	Alain Senteni	ET	Dagmawi Lemma Gobena	NG	Adesina S. Sodiya
AT	Gerald Futschek	FI	Jari Koivisto	PL	Maciej M. Syslo
AT	Anton Knierzinger*	FI	Mikko Ruohonen***	PT	Ana Amélia A.Carvalho
AU	Therese Keane	FR	Bernard Cornu*	RS	Miladin Stefanović**
AU	Arthur Tatnall*	FR	Christophe Reffay	SE	Lena Olsson
BG	Roumen Nikolov	GR	Vassilios Makrakis	SG	Lung Hsiang Wong
BR	Ig Ibert Bittencourt	HU	Marta Turcsanyi-Szabo*	SI	Andrej Brodnik
CL	Jaime Sanchez	IE	Denise Leahy	SK	Ivan Kalas
CLEI	Ernesto Cuadros-Vargas	IN	M.P. Gupta	TH	Srisakdi Charmonman**
CH	Raymond Morel*	IS	Anna Kristjansdottir**	UA	Tetyana Kovalyuk
CN	Xiaoming Li	IT	Rosa Maria Bottino	UNESCO	Zeynep Varoglu
CZ	Zdena Lustigova	JP	Toshinori Saito	US	Mihaela Sabin (ACM)
DE	Johannes Magenheim*	KR	Hajine Kimn	ZA	Johann van Niekirk
DK	Bent B. Andresen	LT	Valentina Dagiene	ZW	Gilford Hapanyengwi
ES	Carlos Delgado Kloos	NL	Hans Frederik		

Ex-officio members: WG Chairs
*) Special Consultant
**) Observer
***) TC3 elected member

WG 3.1 - Informatics and digital technologies in School Education

est. 2014

Chair
Prof. Eric SANCHEZ
École Normale Supérieure de Lyon
15 parvis René-Descartes
BP 7000
FR-69342 LYON Cedex 07
France
Tel. +33 426 731 255
e-mail: eric.sanchez@ens-lyon.fr

Vice-Chair
Prof. Peter MICHEUZ
Alpen-Adria-Univ. Klagenfurt
KID - Klagenfurter Informatik Didaktik
Universitätsstraße 65 – 67
AT-9020 KLAGENFURT
Austria
Tel. +43 463 2700 3519
Fax +43 463 2700 3598
e-mail: peter.micheuz@uni-klu.ac.at

AT	Gerald Futschek	FI	Jari Koivisto*	IN	Rakesh Mohan Bhatt*
AU	Nicholas Reynolds	FR	Bernard Cornu	IT	Barbara Demo
CA	Alnaaz Kassam*	FR	Monique Grandbastien	KE	Anthony Gioko
CH	Lukas Dettwiler	FR	Caroline Jouneau-Sion	KE	Rosemary Waga*
CH	Raymond Morel	GB	Gary Beauchamp*	LT	Valentina Dagiene
CZ	Miroslava Cernochova*	GB	Sue Cranmer*	LT	Tatjana Jevsikova
DE	Torsten Brinda	GB	Steve Kennewell*	NL	Pieter Hogenbirk
DE	Christine Bescherer	GB	Cathy Lewin	NO	Sindre Rosvik
DE	Peter Hubwieser*	GB	Avril Loveless*	PL	Izabela Mrochen*
DE	Matthias Kramer*	GB	Robert Munro*	PL	Maciej Syslo
DE	Johannes Magenheim	GB	Mary Webb	SI	Andrej Brodnik
DE	Ralph Romeike	GB	Mary Welsh*	SK	Ivan Kalaš
DE	Andreas Schwill			US	Margaret Niess*

DE	Sigrid Schubert	HU	Márta Turcsányi-Szabó	ZA	Johan van Niekerk*
DE	Michael Weigend	IL	Yaacov Katz*	ZA	Peter Waker*
EE	Mart Laanpere*	IT	Silvio Giaffredo*		

*) Corresponding member

WG 3.3 Research into Educational Applications of Information Technologies

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URL: http://www.ifipwg3-3.org/

Chair
Dr. Andrew FLUCK
University of Tasmania
Faculty of Education
Locked Bag 1307
LAUNCESTON, TA 7250
Australia
Tel. +61 3 6324 3284
Fax +61 3 6324 3048
e-mail:
andrew.fluck@utas.edu.au

Vice-Chairs
Dr. Cathy LEWIN
Manchester Metropolitan University
Institute of Education
Crewe Green Road
CHESHIRE, CW1 5DU
United Kingdom
Tel. +44 161 247 5191
Fax +44 161 247 6981
e-mail:
c.lewin@mmu.ac.uk

Secretary
Dr. Debora LIPSON
Victoria University
Science Education and Maths Education
Mc Kechnie St.,
9.206 St. Albans
MELBOURNE 8001
Australia
Tel. + 61 3 9919 2027
e-mail:
debora.lipson@vu.edu.au

AR	Azinan Herminia	GB	Paul Curzon*	KR	Seo Jeong-Hee*
AU	Peter Albion	GB	Lynne Dagg*	KR	Woojin Paik*
AU	Donna Gronn*	GB	Margaret de Jong Derrington**	KZ	Scott Overmyer*
AU	Michael Henderson*	GB	Bruce Elson*	LT	Valentina Dagiene
AU	Seeta Jaikaran-Doe*	GB	Libby Jared	NL	Ghaida Alayyar*
AU	Anthony Jones	GB	Steve Kennewell	NL	Petra Fisser
AU	Therese Keane*	GB	Patty Kostkova*	NL	Joke Voogt
AU	Anne McDougall*	GB	Jo-Yu Lee*	NO	Halvdan Haugsbakken
AU	Janet Price**	GB	Robert Munro	NZ	Nicki Dabner*
AU	Christine Redman	GB	Len Newton	NZ	Niki E. Davis
AU	Nicholas Reynolds	GB	Eleanor Overland**	NZ	Vince Ham
AU	Geoff Romeo	GB	Christina Preston*	NZ	Kwok-Wing Lai
AU	Michelle Selinger	GB	Barry Quinn	NZ	Julie Mackey**
AU	John Vincent	GB	Jonathan San Diego	NZ	Hasniza Nordin*
AU	Martyn Wild*	GB	Sue Sentance*	NZ	Keryn Pratt
BE	Erik De Corte*	GB	Arash Shahriari-Rad*	NZ	John Tiffin
BW	Paul Nleya	GB	Bridget Somekh	PK	Farhana Kurshid*
CA	Maiga Chang*	GB	Lampros Stergioulas	PL	Robert Gajewski*
CH	Seamus Delaney**	GB	Ian Stevenson***	PT	Ana Amelia Carvalho
CH	Raymond Morel	GB	Keith Turvey	PT	Sónia Cruz**
CH	Franziska Spring-Keller	GB	Peter Twining	PT	Antonio J. Osorio**
CN	Jianwei Zhang	GB	Mary Webb	RS	Djordje Kadijevich*
CY	Charoula Angeli**	GB	Jenny Wright*	RU	Sergei A. Christochevsky*
DE	Christine Bescherer	GB	Sarah Younie	SA	Ali H. Abureesh*
DE	Birgit Eickelmann	GH	Douglas Agyei**	SI	Andrej Brodnik
DE	Stefan Freischlad*	GR	Helen Drenoyianni	SK	Ivan Kalas
DE	Ulrich Kortenkamp	GR	Kleopatra Nikolopoulou	TR	Hasan Selcuk *
DE	Johannes Magenheim	HU	Andrea Karpati*	TR	Serkan Ucan*
DE	Wolfgang Müller	IE	Deirdre Butler**	TW	I-fen Lin*
DE	Tobias Nelkner*	IE	Margaret Leahy	TZ	Wachira Nicholas*
DE	Christian Spannagel	IN	Amina Charania**	US	Robert M. Aiken*
DE	Peer Stechert	IN	Bhupindar Singh*	US	Ana-Paula Correia
DK	Bent B. Andresen	IS	Anna Kristjansdottir	US	Tiberio Garza*
DK	Jorge Jensen	IT	Rosa M. Bottino	US	David Gibson
ES	Balthasar Fernandez-Manjon*	IT	Michele Cerulli*	US	Gerald Knezek
ES	Alfredo Fernandez-Valmayor**	IT	Augusto Chioccariello*	US	Dale Niederhauser*
FR	Eric Sanchez	IT	Barbara Demo*	US	Becky Sue Parton*
GB	Janine Barnes*	IT	Paolo Rocchi	US	Clark N. Quinn*
GB	Margaret J. Cox	JP	Yoshiaki Matsuzawa	US	Ann Thompson*
GB	Sue Cranmer	JP	Toshinori Saito	ZA	Julie Mackey**
GB	Una Cunningham*	KE	Anthony Maina Gioko	ZA	Johan van Niekerk

*) Corresponding member
**) Intending member

WG 3.4 - Professional and Vocational Education in ICT

est. 1971, revised 1983, 1989, 1995, 2008, 2014
URL: http://www.businessandlaw.vu.edu.au/ifip34/

Chair
Dr. Eva DAKICH
La Trobe University
School of Education
Melbourne Campus
BUNDOORA 3086
Victoria, Australia
Tel. +61 3 9479 5377
e-mail: e-dakich@latrobe.edu.au

Vice-Chair
Dr. Jaana HOLVIKIVI
Helsinki Metropolia University
of Applied Science
P.O. Box 4070
FI-00079 METROPOLIA
Finland
Tel. +358 9 7424 6372
e-mail:
jaana.holvikivi@metropolia.fi

Secretary
Ms. Marie COLLINS
36 Upper Drumcondra Road
Drumcondra
DUBLIN 9
Ireland
Tel. +353 87 2397581
e-mail:
marie.collins.e@gmail.com

AU	Bill Davey	FI	Timo Lainema	JP	Yoshiaki Matsuzawa
AU	Matthew Hillier	FI	Nicholas Mavengere	JP	Shigeru Sam Otsuki
AU	Peter Juliff	FI	Mikko J. Ruohonen	JP	Toshinori Saito
AU	Arthur Tatnall	GB	Helen Edwards	JP	Norio Tokumaru
AU	Barbara Tatnall	GB	Lynne Humphries	KE	Elizahan Maina
BW	Paul Nleya	GB	Barrie Thompson	NL	Ekaterina Mulder
CH	Helmut Schauer	HU	Maria Csernoch	MY	Angela Lee*
DE	Torsten Brinda	IE	Denise Leahy	MY	Tong-Ming Lim*
DE	Heike Köppe	IE	Kate McAuliffe	NG	Adesina Simon Sodiya*
DE	Simone Opel*	IL	Ben Zion Barta	NL	Anneke Hacquebard
DE	Andreas Schwill	IL	Daniel Millin	NL	J.W. Houben
DK	Jane Andersen	IN	Arup Roy	SG	Angela Goh
DK	Anne-Mette Nortvig	IT	Monica Banzato	US	Marie Iding
EE	Mart Laanpere	IT	Domenico Ponta	US	Joyce Currie Little
EE	Tobias Ley	IT	Paolo Rocchi	US	Lawrence Williams*
ES	Javier Osorio	JP	Tsurayuki Kado		

*) Corresponding Member

WG 3.7 - Information Technology in Educational Management

est. 1996
URL: http://www.informatik.uni-bremen.de/agim/ifip/cms/index.php

Chair
Prof. Don PASSEY
University of Lancaster
Department of Educational
Research
County South, D25
LANCASTER LA1 4YD
United Kingdom
Tel. +44 1524 592314
e-mail: d.passey@lancaster.ac.uk

Vice-Chair
Prof. Javier OSORIO
Univ. de Las Palmas de Gran Canaria
Fac. de Ciencias Econ. y
Empresariales
Campus Universitario de Tafira
ES-35017 LAS PALMAS de GRAN
CANARIA
Spain
Tel. +34 928 45 28 04
Fax +34 928 45 18 29
e-mail: josorio@dede.ulpgc.es

AU	Bill Davey	ES	Jorge Rodriguez-Diaz	NL	Kim Schildkamp
AU	Therese Keane	FI	Ronald Bisaso	NL	Adrie Visscher
AU	Elspeth McKay	FI	Nicholas Mavengere	NO	Dale Casey*
AU	Maree Skillen	FI	Mikko Ruohonen*	NO	Sindre Rosvik*
AU	Arthur Tatnall	GB	Chris O'Mahony	PL	Robert Gajewski
BW	Coach Kereteleswe	GB	Alan Strickley	PL	Anna Grabowska
CN	Alex Fung	GB	Ian Selwood	PT	Joao Alvaro Carvalho
DE	Andreas Breiter	IN	Rakesh Moha Bhatt	PT	Antonio Castro
DE	Christian Kiock	IR	Denise Leahy	TR	Cevat Celep
DE	Björn Stockleben*			TR	Tuğba Konakli*

DE	Arne H. Schultz	IT	Monica Banzato	TR	Volkan Kukul
DE	Elif Tanrikulu	JP	Toshio Okamoto	TR	Tijen Tülübas*
DE	Michael Wilmes	LT	Irena Patašiene*	UA	Oleana Chaikovska
ES	Jacques Bulchand	MY	Tong-Ming Lim*	US	Christopher A. Thorn
		MY	Angela Lee Siew Hoong*		

TC 5 - Information Technology Applications

est. 1970, revised 2004
URL: http://www.ifip-tc5.org

Chair
Prof. Tadeusz CZACHÓRSKI,PL
Polish Academy of Sciences
(IITiS PAN)
Institute of Theoretical and
Applied Informatics
ul Baltycka 5
PL-44-100 GLIWICE
Poland
Tel. +48 32 231 73 19 ext 213
Fax +48 32 231 70 26
e-mail: tadek@iitis.gliwice.pl

Vice-Chair
Dr. György L. KOVACS, HU
Hungarian Acad. of Sciences
CIM Research Laboratory
Comp. and Autom. Research
Institute
Kende u. 13-17
HU-1111 BUDAPEST
Hungary
Tel. +36 1 209 6143
Fax +36 1 466 7503
e-mail: gyorgy.kovacs@sztaki.hu

Vice-Chair for IFIP/TC5 rewards
Prof. Dr. Erich J. NEUHOLD, DE
Universität Wien
Fakultät für Informatik
Währinger Straße 29
AT-1090 WIEN
Austria
Tel. +43 1 4177 78801
e-mail: erich.neuhold@
univie.ac.at

Vice-Chair for New Activities and Interdiscipl.Cooperation
Prof. Dr. Dimiter VELEV, BG
Univesity of National and World
Economy
Faculty of Applied Informatics
and Statistics
UNSS - Stud. grad. "Christo
Botev/8 Dec"
BG-1700 SOFIA
Bulgaria
Tel. +359 2 8195694
Fax +359 2 9623903
e-mail: dvelev@unwe.acad.bg

Secretary
Dr. Philippe DALLEMAGNE, CH
Centre Suisse d'electronique
et de microtechnique
CSEM SA
Jaquet-Droz 1
Case Postale
CH-2002 NEUCHATEL
Switzerland
Tel. +41 32 720 5521
Fax +41 32 720 5720
e-mail:
philippe.dallemagne@csem.ch

Communications Officer
Dr. Ronald WAXMAN, US
EDA Standards Consulting
Retired Principal Scientist at Uva
24975 Hilltop Drive
BEACHWOOD, OH 44133-1351
USA
Tel. +1 216 297 9378
e-mail: waxman@computer.org

Publications & Events Officer
Prof. Gaetano CASCINI, IT
Politechico di Milano
Dept.of Mechanics
Via Giuseppe La Masa,34
IT- 20156 MILANO
Italy
Tel. +39 02 2399 8463
Fax +39 02 2399 8282
e-mail: gaetano.cascini@polimi.it

AR	Gabriela P. Henning	GB	Umit Bititci*	PT	Luis Manuel Camarinha-Matos
AT	Peter Hehenberger	GB	Rae A. Earnshaw	RS	Ivica Mlađenović
CN	Renchu Gan	IL	Gideon Halevi*	SE	Jad El-Khoury
CN	Yu Tao*	IN	Rattan K. Datta	SG	Nadia Magnenat-Thalmann*
DE	Ralf Denzer*	JP	Masaru Nakano	US	Mansour Ashtiani
DE	Detlef Kochan*	KR	Byoung-Kyu Choi	US	Gustav Olling (Senior Advisor)
DK	Peter Falster	MX	Noel Leon Rovira*	US	Jakob Vlietstra***
ES	Carlos Juiz	NL	Hamideh Afsarmanesh	US	Michael B. McGrath
FI	Ritta Smeds	NO	Kesheng Wang	US	Michael Wozny*
FR	Guy Doumeingts				

ex-officio members: WG Chairs
*) Individual Member
**) Observer
***) Honorary Member

WG 5.1 - Global Product Development for the whole life-cycle

est. 2006, revised 2009
URL: http://www.ifip-wg51.org

Chairs
Prof. Abdelaziz BOURAS
Université Lumiere
Lyon 2 - IUT Lumiere
160, Bd de l'Université
FR-69676 BRON, Cedex
France
Tel. +33 4 7877 3146
Fax +33 4 7800 6328
e-mail:
abdelaziz.bouras@qu.edu.qa

Vice-Chairs
for Europe and Africa:
Prof. Alain BERNARD
Ecole Centrale de Nantes
1, rue de la Noë
BP 92101
FR-44321 NANTES Cedex 3
France
Tel. +33 2 40 37 69 66
Fax +33 2 40 37 69 30
e-mail:
alain.bernard@irccyn.ec-nantes.fr

for America:
Prof. Debasish DUTTA
University of Illinois
226 Mechanical Engineering Building
1206 West Green Street
URBANA, IL 61801
USA
Tel. +1 217 333 6715
e-mail: ddutta@illinois.edu

for Asia and Pacific:
Dr. Balan GURUMOORTHY
Indian Institute of Science
Department of Mechanical Engineering
IN-BANGALORE 560 012
India
Tel. +91 80 2293 2304
Fax +91 80 2360 1975
e-mail:
bgm@mecheng.isc.ernet.in

Secretary
Dr. Henk Jan PELS
Technische Univ. Eindhoven
Dept.of Technology Management
Section Information & Technology
P.O. Box 513 Paviljoen
NL-5600 MB EINDHOVEN
The Netherlands
Tel. +31 40 2473948
Fax +31 40 243 2612
e-mail**:** h.j.pels@tm.tue.nl

AT	Peter Hehenberger
BR	Eduardo de Senzi Zancul
CA	Louis Rivest
CA	Darli Vieira
CH	Dimitris Kiritsis
DE	Michael Schabacker
DE	Klaus-Dieter Thoben
DE	Sandor Vajna
FI	Hannele Lampela
FI	Hannu Kärkkäinen
FI	Anneli Silventoinen
FR	Améziane Aoussat
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FR	Benoit Eynard
FR	Julien Le Duigou
FR	Nicolas Maranzana
FR	Frédéric Noël
FR	Yacine Ouzrout
FR	Hervé Panetto
FR	Lionel Roucoules
FR	Frederic Segonds
GB	Alison McKay
GB	Chris McMahon
GB	Robert Young
GR	Nikolaos Bilalis
GR	Nickolas S. Sapidis
HK	George Huang
IT	Romeo Bandinelli
IT	Paolo Chiabert
IT	Umberto Cugini
IT	Margherita Peruzzini
IT	Sergio Terzi
JP	Shuichi Fukuda
JP	Young Won Park
KR	Jong Gyun Lim
QA	Sebti Foufou
RU	Alexander Smirnov
TH	Nopasit Chakpitak
SE	Johan Malmqvist
SG	Wen Feng Lu
US	Paul Hong
US	Chris Paredis
US	Sudarsan Rachuri
US	Ram Sriram

WG 5.4 Computer Aided Innovation

est. 2005
URL: http://cai.insa-strasbourg.fr/

Chair
Prof. Denis CAVALLUCCI
INSA Graduate School of
Science and Technology
Design Engineering Laboratory
24, Boulefard de la Victoire
FR-67084 STRASBOURG
France
Tel. +33 3 88 14 4755
Fax +33 3 88 14 4799
e-mail: denis.cavallucci@insa-strasbourg.fr

Publication Officer
Dr. Cecilia ZANNI-MERCK
ICube – UMR 7357
300 Bd Sébastien Brant
BP 10413
FR-67412 ILLKIRCH Cedex
France
Tel. +33 3 68 854579
Fax +33 3 68 854455
e-mail:cecilia.zanni-merk@unistra.fr

AR	Martin Marchetta
AR	Ricardo Palma
AU	Edward Szczerbicki
BR	Marco Aurelio de Carvalho
CL	Juan D. Velasquez Silva
CN	Runhua Tan
DE	Thomas Nagel
ES	Manuel Grana
ES	Carlos Toro
FI	Eric Coatanea
FR	Amadou Coulibaly
FR	Roland De Guio
GB	Paul Prickett
GB	Rossi Setchi
IT	Carlo Angelini
IT	Gaetano Cascini
IT	Gualtiero Fantoni
IT	Davide Russo
KR	Seung-Hyun Yoo
MX	Guillermo Cortes Robles
MX	Carlos Flores Silguero
MX	Noel Leon Rovira
US	Joe Craig
US	William Hessler
US	Gul E. Okudan Kremer
US	Gustav J. Olling

WG 5.5 Co-operation Infrastructure for Virtual Enterprises and Electronic Business - "COVE"
est. 2001
URL: https://sites.google.com/site/ifipcove/

Chair
Prof. Luis M. CAMARINHA-MATOS
New University of Lisbon
Campus de Caparica
PT-2829-516 MONTE CAPARICA
Portugal
Tel. +351 212948517
Fax +351 212941253
e-mail: cam@uninova.pt

Vice-Chair
For Australia and Asia:
Dr. Peter BERTOK
RMIT University
School of Computer Science & Information Technology
GPO Box 2476
AU-MELBOURNE 3001
Australia
Tel. +61 3 9925 1851
Fax +61 3 9662 1617
e-mail: peter.bertok@rmit.edu.au

Vice-Chair
For Europe:
Prof. Xavier BOUCHER
ENSMSE-Ecole Nationale Superieure des Mines de St. Etienne
158 Cours Fauriel
FR-42023 ST. ETIENNE Cedex
France
Tel. +33 04 77 42 01 33
Fax +33 04 77 42 66 66
e-mail: boucher@emse.fr

BR	Ricardo J. Rabelo
BR	Rolando Vallejos
CA	Weiming Shen
CH	Myrna Flores
CH	Michel Pouly
CR	Cesar Garita
DE	Bernhard Katzy
DE	Kurt Kosanke
FR	Frederique Biennier
FR	Pierre Maret
GR	Garyfallos Fragidis
GR	Adamantios Koumpis
HU	Julius Herman
HU	György L. Kovacs
IT	Dario Antonelli
IT	Rosanna Fornasiero
IT	Rinaldo C. Michelini
IT	Roberto Santoro
JP	Toshiya Kaihara
LU	Francois Vernadat
MO	Tomasz Janowski
MX	Arturo Molina
NL	Hamideh Afsarmanesh
PT	Americo Azevedo
PT	Goran Putnik
PT	Luis Osorio
PT	Jorge Pinho Sousa
US	H. Ted Goranson
US	Shimon Y. Nof

WG 5.7 Advances in Production Management Systems

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URL: http://www.ifipwg57.org

Chair
Dr. Dimitris KIRITSIS
Ecole Polytechnique
Fédérale de Lausanne
STI-IGM-LICP
ME A1 396
Station 9
CH-1015 LAUSANNE
Switzerland
Tel. +41 21 693 51 63
Fax +41 21 693 35 53
e-mail: dimitris.kiritsis@epfl.ch

Vice-Chairs
for Europe:
Prof. Dr.-Ing. Klaus-Dieter THOBEN
Universität Bremen und Bremer
Institut fuer Produktion und Logistik
GmbH (BIBA)
PO-Box 33 05 60
DE-28335 BREMEN
Germany
Tel. +49 421 218 5529
Fax +49 421 218 5610
e-mail: tho@biba.uni-bremen.de

for America:
Prof. Vittaldas V. PRABHU Marcus
Department of Industrial and
Manufacturing Engineering
The Pennsylvania State University
348 Leonhard Building
University Park, PA 16802
USA
Tel. +1 814 863 3212
Fax +1 814 863 4745
Email: prabhu@engr.psu.edu

Secretary
Mr. Gregor von CIEMINSKI
ZF Friedrichshafen AG
Ehlersstrasse 50
DE-88038
FRIEDRICHSHAFEN
Germany
Tel. +49 7541 77 960330
Fax +49 7541 77 900330
e-mail:
gregor.cieminski@zf.com

Vice Chair for Asia-Pacific:
Prof. Shigeki UMEDA
Musashi University
1-26 Toyotama-kami Nerima
TOKYO 176-8534
Japan
Tel. +81 35 984 3837
Fax +81 33 991 1198
e-mail:
shigeki@cc.musashi.ac.jp

AT	Susanne Altendorf-Kaiser
BR	Irenilza de Alencar Nääs
BR	Ricardo José Rabelo
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FR	Frédéric Demoly	JP	Norio Okino*	US	Richard Lee Storch
FR	Alexandre Dolgui	JP	Hiroyuki Yoshikawa*	US	Thorsten Wuest
FR	Guy Doumeingts				

*) Honorary member

WG5.8 Enterprise Interoperability
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Chair
Prof. Lea KUTVONEN
University of Helsinki
Department of Computer Science
FI-00014 HELSINKI
Finland
Tel. +358 50 415 1714
e-mail:
lea.kutvonen@cs.helsinki.fi

Vice-Chairs
Prof. Ulrike LECHNER
Universität der Bundeswehr, München
Dept.of Business Informatics
Werner Heisenberg Weg 39
DE-85577 NEUBIBERG
Germany
Tel. +49 89 6004 2504
Fax +49 89 6004 3036
e-mail:
ulrike.lechner@unibw.de

Secretary
Dr. Georg GROSSMANN
University of South Australia
School of Information Technology and Mathematical Sciences
Mawson Lakes Campus
AU-ADELAIDE, SA 5001
Australia
Tel. +61 8 830 23194
Fax +61 8 930 23988
e-mail:
georg.grossmann@cs.unisa.edu.au

Treasurer
Prof. Stephan KASSEL
University of Applied Sciences
Faculty of Economics and Business Administration
Scheffelstraße 39
DE-08066 ZWICKAU
Germany
Tel. +49 375 536 3492
Fax +49 375 536 3104
e-mail: stephan.kassel@fh-zwickau.de

AT	Robert Meersman	DE	Victor Taratoukhine	GR	Sakas Psonis
AT	Georg Weichhart**	DE	Martin Zelm	IT	Pierluigi Assogna
AU	Eng Chew	ES	Ricardo Chalmeta	IT	Piero De Sabbata
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DE	Kurt Sandkuhl	GR	Ioannis Kotsiopoulos		

*) Web Site Responsibles (Content)
**) Web Site Responsibles (Structure)
***) Event Coordinator

WG 5.10 - Computer Graphics and Virtual Worlds

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URL: http://cospace.sce.ntu.edu.sg/ifip/

Chair
Dr. Alexei SOURIN
Nanyang Technological University
School of Computer Engineering
Nanyang Avenue
SINGAPORE 639798
Singapore
Tel. +65 6790 4292
Fax +65 6792 6559
e-mail: assourin@ntu.edu.sg

Vice-Chair
Prof. Dr. Rae A. EARNSHAW
Univ.of Bradford
Dept. of Electronic Imaging and Media Communications
Richmond Rd
BRADFORD BD7 1DP
West Yorkshire
United Kingdom
Tel. +44 1 274 234 001
Fax +44 1 274 233 727
e-mail: r.a.earnshaw@bradford.ac.uk

CH	Daniel Thalmann	HU	György L. Kovacs	JP	Masayuki Nakajima
CN	Zhigeng Pan	IT	Bianca Falcidieno	KR	Myoung-Hee Kim
DE	Wolfgang Müller-Wittig	IT	Gianluca Mura	RU	Stanislav Klimenko
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GB	Nigel W. John				

WG 5.11 Computers and Environment

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URL: http://ifipwg511.org

Chair
Dr. Ioannis N. ATHANASIADIS
Wageningen University
Information Technology
Hollandseweg 1
NL-6706 KN WAGENINGEN
The Netherlands
Tel. +31 3174 80166
e-mail: ioannis.athanasiadis@wur.nl

Vice-Chair
Dr. Steven P. FRYSINGER
James Madison University
College of Integrated Science and Technology
701 Carrier Drive – MSC 4102
HARRISONBURG, VA 22807
USA
Tel. +1 540 568 2710
Fax +1 540 568 2768
e-mail: frysinsp@jmu.edu

Secretary
Prof. Dr. Jiří HŘEBÍČEK
Masaryk University
Inst. of Biostatistics and Analyses
Kamenice 126/3
CZ-625 00 BRNO
Czech Republic
Tel. +420 549 493 186
e-mail: hrebicek@iba.muni.cz

AT	Alexander Kaufmann	CA	Daryl H. Hepting	DE	Thorsten Schlachter
AT	Werner Pillmann	CA	David Swayne	DE	Thomas Usländer
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CA	William Booty	DE	Ulrich Meissen		

WG 5.12 Architectures for Enterprise Integration

est. 1995, revised 2008
URL: http://www.cit.gu.edu.au/~bernus/ifip/WG5.12/

Chair
Prof. Dr. Peter BERNUS
Griffith University
School of Computing & Inf.
NATHAN, QLD 4111
Australia
Tel. +61 7 875 5039
Fax +61 7 875 5051
e-mail:
p.bernus@griffith.edu.au

Vice-Chair
Prof. Richard H. WESTON
Loughborough Univ. of Technol.
LOUGHBOROUGH LE1 3TU
United Kingdom
Tel. +44 1509 222 907
Fax +44 1509 267 725
e-mail: r.h.weston@lut.ac.uk

AT	Peter Kopacek	ES	Angel Ortiz	PT	João José Pinto Ferreira
AT	Norbert Rozsenich	FR	Vincent Chapurlat	RO	Mihai Avram
AU	Laszlo Nemes	FR	David Chen	RO	Florin Filip
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DK	H. J. Molstand	LU	Francois Vernadat	US	Jakob Vlietstra
DK	Johan Vesterager	MX	Arturo Molina Gutierrez	US	Theodore J. Williams
ES	Luis Basanez				

WG 5.13 Bioinformatics and its Applications

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Chair
Dr. K. R. PARDASANI
Maulana Azad National Institute
of Technology (MANIT)
Department of Mathematics
and Humainities
IN-462051 BHOPAL
India
Tel. +91 755 267 1486
e-mail:
kamalrajp@rediffmail.com

Vice-Chair
to be determined

Secretary
Dr. Neeru ADLAKHA
S.V. National Institute of
Technology
Department of Applied
Mathematics
Ichchhanath,
IN-395007 SURAT, GURAJAT
India
e-mail**:**neeru.adlakha21
@gmail.com

AT	Philipp Kügler	HK	Siu Ming Yiu	NZ	Madhav Bhatia
AT	Milan Stehlik	IL	Ron Shamir	NZ	Nikola Kasabov
AU	Maja Hadzic	IN	Rattan K. Datta	RU	Maria G. Samsonova
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CN	Hong Xue	IN	V.P. Saxena	TR	Hasan Ogul
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GB	Vijayalakshmi Chelliah	MY	Zeti Azura Hussein	US	Mamoru Kato
GB	Sara Kalvala	NP	D.B. Gurung	US	Marcos S. Pinto

WG5.14 - Advanced Information Processing for Agriculture

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Chair
Prof. Dr. Daoliang LI
China Agricultural University
Director of CICTA
17 Tsinghua East Road
BEIJING 100083
P.R. China
Tel. +86 10 6273 6764
Fax +86 10 6273 7679
e-mail: dliangl@cau.edu.cn

Vice-Chairs
Dr. Zhenbo LI
China Agricultural University
17 Tsinghua East Road
BEIJING 100083
P.R. China
Tel. + 86 10 6273 8751
Fax +86 10 6273 8751
e-mail: zhenboli@gmail.com

Dr. Yingyi CHEN
China Agricultural University
17 Tsinghua East Road
BEIJING 100083
P.R. China
Tel. +86 10 6273 8489
Fax +86 10 6273 7741
e-mail: chyingyi@126.com

Secretary
Mr. Lihong SHEN
China Agricultural University
17 Tsinghua East Road
BEIJING 100083
P.R. China
Tel. + 86 10 6273 7994
Fax +86 10 6273 7741
e-mail: hnslh@cau.edu.cn

AT	Alexander Schatten
CA	Simon Xianyi Yang
CN	Hongxin Cao
CN	Guifen Chen
CN	Longmeng Chen
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CN	Dongjian He
CN	Caojun Huang
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TC 6 - Communication Systems

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URL: http://ifip.informatik.uni-hamburg.de/ifip/tc6

Chair
Prof. Dr. Burkhard STILLER,CH
University of Zurich
Department of Informatics (IFI),
BIN 2. E. 03
Binzmühlestrasse 14
CH-8050 ZÜRICH
Switzerland
Tel. +41 44 635 67 10
Fax +41 44 635 68 09
e-mail: stiller@ifi.uzh.ch

Vice-Chair
Dr. Siraj SHAIKH, GB
Coventry University
Department of Computing and
Digital Environment
Faculty of Eng. and Computing
Priory Street
COVENTRY CV1 5FB
United Kingdom
Tel. +44 2476 888 225
Fax +44 7939 233 995
e-mail: siraj.shaikh@gmail.com

AT	Peter Reichl	DE	Volker Nötzold**	NL	Aiko Pras
BE	Andre Danthine*	DE	Winfried Lamersdorf	NO	Finn Arve Aagesen
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WG 6.1 - Architectures and Protocols for Distributed Systems

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URL: https://ifip.informatik.uni-hamburg.de/ifip/tc/6/wg/6.1

Chair
Prof. Jean-Bernard STEFANI
INRIA Rhône-Alpes
Inovallée
655 Avenue de l'Europe
Montbonnot
FR-38334 ST. ISMIER Cedex
France
Tel. +33 4 7661 5257
Fax +33 4 7661 5252
e-mail:
jean-bernard.stefani@inria.fr

Vice-Chair
Prof. Rui OLIVEIRA
Departamento de Informática
Universidade do Minho
Campus de Gualtar
PT-4710-057 BRAGA
Portugal
Tel. +351 253 604 452
e-mail: rco@di.uminho.pt

AU	Kerry Raymond	FI	Lea Kutvonen	IT	Tommaso Bolognesi
BE	Guy Leduc	FI	Martti Tienari	IT	Alessandro Fantechi
CA	Gregor v. Bochmann	FR	Ana Rosa Cavalli	IT	Roberto Gorrieri
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ES	David de Frutos Escrig				

*) honorary member

WG 6.2 - Network and Internetwork Architectures

est. 1994, revised 2000, 2009
URL: https://ifip.informatik.uni-hamburg.de/ifip/tc/6/wg/6.2

Chair	**Vice Chair**	**Secretary**
Prof. Jordi DOMINGO-PASCUAL	Prof. Dr.-Ing. Georg CARLE	Dr. Jörg WIDMER
Universitat Politecnica de Catalunya	Network Architect. and Services Institute for Informatics	Institute IMDEA Networks
Departament d'Arquitectura de Computadors	TU München	Avenida del Mar Mediterraneo, 22
Jordi Girona, 1-3	Boltzmannstr. 3	ES-28918 LEGANES, Madrid
ES-08034 BARCELONA	DE-85748 GARCHING/ München	Spain
Catalunya	Germany	Tel. +34 91 481 6994
Spain	Tel. +49 89 289 18030	Fax +34 91 481 6965
Tel. +34 934016981	Fax +49 89 289 18033	e-mail: widmer@acm.org
Fax +34 934017055	e-mail: carle@in.tum.de	
e-mail: jordi.domingo@ac.upc.edu		

AT	Helmut Leopold	DE	Otto Spaniol	IT	Marco Ajmone Marsan
AT	Reinhard Posch	ES	Xavier Masip-Bruin	IT	Marco Conti
AU	Aruna Seneviratne	ES	Ramon Puigjaner	IT	Luigi Fratta
BE	Andre Danthine	FI	Olli Martikainen	IT	Giorgio Ventre
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CA	Raouf Boutaba	FR	Serge Fdida	PL	Andrzej Jajszczyk
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CH	Burkhard Stiller	FR	James Roberts	US	Andrew T. Campbell
CZ	Robert Bestak	FR	Samir Tohme	US	Mario Gerla
CZ	Lukas Kencl	GB	David Hutchison	US	Harry G. Perros
DE	Wolfgang Effelsberg	GR	Ioannis Stavrakakis	US	Catherine Rosenberg
DE	Paul J. Kuehn	GR	Vassilis Tsaoussidis	US	James P.G.Sterbenz
DE	Radu Popescu-Zeletin	IN	S.V. Raghavan	US	Fouad Tobagi
DE	Erwin P. Rathgeb				

WG 6.3 - Performance of Communication Systems
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URL: http://cnd.iit.cnr.it/ifipwg63/

Chair
Dr. Andrea PASSARELLA
IIT-CNR
Via G. Moruzzi, 1
IT-56124 PISA
Italy
Tel. +39 050 315 3269
Fax +39 050 315 2593
e-mail: a.passarella@iit.cnr.it

AT	Guenter Haring	GB	Peter Key	NO	Bjarne E. Helvik
BE	Chris Blondia	GB	Demetres D. Kouvatsos	PL	Michal Pioro
BE	Benny Van Houdt	GR	Kimon Kontovasilis	SE	Ulf Koerner
BR	Luis Felipe M. de Moraes	GR	Nikolas M. Mitrou	TR	Cem Ersoy
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CH	Ilias Iliadis	HU	Sandor Molnar	US	Do Young Eun
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DE	Otto Spaniol	IL	Moshe Sidi	US	Jim Kurose
EG	Khaled Fouad Elsayed	IT	Marco Conti	US	Debasis Mitra
ES	Sebastia Galmes	IT	Domenico Ferrari	US	Harry G. Perros
ES	Ramon Puigjaner	IT	Luigi Fratta	US	William J. Stewart
FI	Ilkka Norros	IT	Stefano Giordano	US	Satish K. Tripathi
FR	Eitan Altman	JP	Konosuke Kawashima	US	Kishor S. Trivedi
FR	Tulin Atmaca	JP	Yutaka Takahashi	US	Yannis Viniotis
FR	Raymond Marie	NL	Boudewijn R. Haverkort	US	Lisong Xu
FR	Guy Pujolle	NL	Hans van den Berg	ZA	Pieter S. Kritzinger
GB	Erol Gelenbe				

WG 6.6 - Management of Networks and Distributed Systems

est. 1986, revised 2001, 2006
URL: http://www.simpleweb.org/ifip/

Chair
Prof. Dr. Olivier FESTOR
LORIA-INRIA Lorraine
Technopole de Nancy-Brabois-Campus scientifique
615, rue de Jardin Botanique – B.P. 101
FR-54600 VILLERS LES NANCY Cedex
France
Tel. +33 3 83 59 30 66
Fax +33 3 83 41 30 79
e-mail: olivier.festor@loria.fr

Vice Chair
Prof. Dr. Burkhard STILLER
University of Zurich
Department of Informatics (IFI),
BIN 2. E. 03
Binzmühlestrasse 14
CH-8050 ZÜRICH
Switzerland
Tel. +41 44 635 67 10
Fax +41 44 635 68 09
e-mail: stiller@ifi.uzh.ch

AU	G. Chen	GB	Morris Sloman	US	Roberta S. Cohen
AU	Pradeep Kumar Ray	GR	George Kormentzas	US	German Goldszmidt
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WG 6.8 - Mobile and Wireless Communications
est. 1996, revised 2002, 2007
URL: https://ifip.informatik.uni-hamburg.de/ifip/tc/6/wg/6.8

Chair
Prof. Jozef WOZNIAK
Gdansk University of Technology
Faculty of Electronics
ul. G. Narutowicza 11/12
PL-80952 GDANSK
Poland
Tel. +48 58 472223
Fax +48 58 416132
e-mail: jowoz@eti.pg.gda.pl

Vice Chair
Dr. Robert BESTAK
Czech Technical University
Faculty of Electrical
Engineering / Deptartment of
Telecommunications
Technicka 2,
CZ-16627 PRAHA 6
Czech Republic
Tel. +420 22435 5996
e-mail:
robert.bestak@fel.cvut.cz

BR	Claudia Barenco	DK	Villy Baek Iversen	JP	Tadao Saito
BR	Otto Duarte	ES	José Villalon	KR	Yongho Seok
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WG 6.9 - Communication Systems for Developing Countries

est. 2002
URL: https://ifip.informatik.uni-hamburg.de/ifip/tc/6/wg/6.9

Chair
Dr. Siraj SHAIKH
Coventry University
Department of Computing and
Digital Environment
Faculty of Eng. and Computing
Priory Street
COVENTRY CV1 5FB
United Kingdom
Tel. +44 2476 888 225
Fax +44 7939 233 995
e-mail: siraj.shaikh@gmail.com

Vice-Chair
Dr. Rodrigo SANTOS
Universidad Nacional del Sur
CONICET
Department of Electrical
Engineering and Computers
Avda Alem 1253
AR-8000 BAHIA BLANCA
Argentina
Tel. +54 291 4595181
Fax +54 291 4595154
e-mail: ierms@criba.edu.ar

AD	Miquel Nicolau I Vila	CLEI	Benjamin Barán	GR	Dimitris Varoutas
AE	Greg Kelaart-Courtney	DK	Villy Baek Iversen	IN	S.V. Raghavan
BR	Jose Neumann de Souza	ES	Ana Pont-Sanjuan	PT	Augusto Casaca
CA	Raouf Boutaba	ES	Ramon Puigjaner		

WG 6.10 - Photonic Networking

est. 1998
URL: https://ifip.informatik.uni-hamburg.de/ifip/tc/6/wg/6.10

Chair
Dr. Tibor CINKLER
Budapest Univ. of Technology
and Economics (BME)
Dept. of Telecommunications
and Media Informatics (TMIT)
Magyar tudósok körútja 2
HU-1117 BUDAPEST
Hungary
Tel. +36 1 463 1861
Fax +36 1 463 3107
e-mail: cinkler@tmit.bme.hu

Vice-Chair
Dr. Jacek RAK
Gdansk University of
Technology
Faculty of Electronics,
Telecomm. and Informatics
Narutowicza 11/12
PL-80-233 GDANSK
Poland
Tel. +48 58 347 17 38
Fax +48 58 341 61 32
e-mail: jrak@pg.gda.pl

AT	Harmen R. van As	GB	Dimitra Simeonidou	PT	João Pires
CA	Lorne G. Mason	GR	Ioannis Tomkos	SE	Lena Wosinska
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WG 6.11 - Communication aspects of the e-World

est. 2000, revised 2001, 2010
URL: http://ifip.informatik.uni-hamburg.de/ifip/tc/6/wg/11

Chair	**Vice-Chair**	**Secretary**
Dr. Matti MÄNTYMÄKI University of Turku Business Informatics Turku School of Economics FI-20014 TURUN YLIOPISTO Finland e-mail: matti.mantymaki@utu.fi	Prof. Dr. Winfried LAMERSDORF University of Hamburg Department of Informatics Faculty for Math., Informatics, and Nat. Sciences Distributed and Information Systems (VSIS) Vogt-Kölln-Str. 30 DE-22527 HAMBURG Germany Tel. +49 40 42883 2421 Fax +49 40 42883 2328 e-mail: lamersd@informatik.uni-hamburg.de	Dr. Jarogniew RYKOWSKI Dept. of Information Technology The Poznan University of Economics Mansfelda 4 PL-60 854 POZNAN Poland Tel. +48 61 8480549 e-mail: rykowski@kti.ue.poznan.pl

AT	Roland Traunmüller	CN	Weijun (Joe) Wang	GR	Lefkada Papacharalambous
AU	Zoran Milosevic	CN	Ruixian Yang	GR	Despina Polemi
AU	Paula Swatman	CN	Jing Zhao	GR	Spyridon Papastergiou
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CN	Haishan Tian				

WG 6.12/8.10/2.14 - Service-Oriented Systems

TC 7 - System Modeling and Optimization

est. 1972
URL: http://www3.math.tu-berlin.de/numerik/IFIP-TC7/

Chair
Prof. Dr. Fredi TRÖLTZSCH, DE
Technische Universität Berlin
Fakultät II – Mathematik und Naturwissenschaften
Sekretariat MA 4-5
Strasse d. 17. Juni 136
DE-10623 BERLIN
Germany
Tel. +49 30 314 79 688
Fax +49 30 314 78 658
e-mail: troeltzsch@math.tu-berlin.de

Vice-Chairs
Prof. Irena LASIECKA, US/ACM
The University of Memphis
Department of Mathematical Sciences
Dunn Hall 373
MEMPHIS, TN 38152
USA
Tel. +1 901 678 3031
Fax +1 901 678 2480
e-mail: lasiecka@memphis.edu

Prof. Dr. Lukasz STETTNER, PL
Polish Academy of Sciences
Institute of Mathematics
Dep. of Probability Theory and Mathematics of Finance
Sniadeckich 8
PL-00-956 WARSAW
Poland
Tel. +48 22 52 28 126
Fax +48 22 62 93 997
e-mail: l.stettner@impan.pl

AT	Barbara Kaltenbacher	DE	Dietmar Hömberg	IT	Maria C. Calzarossa
BE	Philippe Toint	DK	Alain Larsen	JP	Hisao Kameda
BR	Edmundo de Souza e Silva	ES	Josep Casanovas	NL	Adrie J.M. Beulens
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*) Honorary member
**) Member recommended by TC7

WG 7.1- Modeling and Simulation

est. 1972 Aims and Scopes

Chair
Prof. Dr. Andrzej PALCZEWSKI
University of Warsaw
Faculty of Mathematics, Informatics and Mechanics
2 Banach St.
PL-02097 WARSAW
Poland
Tel. +48 22 5544 467
Fax +48 22 5544 300
e-mail: apalczew@mimuw.edu.pl

BE	Tom Dhaene	LT	N. Telksnys	US	J. Meditch
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JP	Shin-Ichi Aihara	US	Ravi R. Mazumdar		

WG 7.2 - Computational Techniques in Distributed Systems

est. 1973
URL: http://www.math.virginia.edu/~ifip/wg72/

Chair
Prof. Dr. Dietmar HÖMBERG
WIAS
Weierstraß-Institut
Mohrenstraße 39
DE-10117 BERLIN
Germany
Tel. +49 30 20372 491
Fax +49 30 20372 313
e-mail: dietmar.hoemberg@wias-berlin.de

Vice-Chair
Prof. Dr. George AVALOS
University of Nebraska-Lincoln
Department of Mathematics
323 Avery Hall
LINCOLN, NE 68588
USA
Tel. +1 402 472 7234
Fax +1 402 472 8466
e-mail: gavalos@math.unl.edu

Secretary
Dr. Lorena BOCIU
North Carolina State University
Dept. of Mathematics
Office SAS 3236
Box 8205
RALEIGH, NC 27695-8205
USA
Tel. +1 919 515 7321
e-mail: lvbociu@ncsu.edu

AE	Amjad Tuffaha	ES	Eduardo Casas	IT	Luciano Pandolfi
AT	Michael Hintermueller	ES	Jesus Diaz	NL	Ruth Curtain
AT	Wolfgang Ring	ES	Luis Fernandez	PL	Ngoc Thanh Nguyen
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ES	Alfredo Bermudez	IT	Giuseppe da Prato		

WG 7.3 - Computer System Modeling
est. 1973

Chair
Dr. Mark S. SQUILLANTE
Mathematical Sciences Dept.
IBM Thomas J. Watson
Research Center
1101 Kitchawan Road
YORKTOWN HEIGHTS,
NY 10598
USA
Tel. +1 914 945 3360
Fax +1 914 945 3434
e-mail: mss@us.ibm.com

Vice-Chair
Prof. Sem BORST
Eindhoven University of
Technology
Department of Mathematics &
Computer Science
P.O. Box 513
NL-5600 MB EINDHOVEN
The Netherlands
Tel. +31 40 247 5105
Fax +31 40 246 5995
e-mail: sem@win.tue.nl

Secretary
Prof. Benny VAN HOUDT
University of Antwerp
Dept. of Mathematics and
Computer Science
Middelheimlaan 1
BE-2020 ANTWERPEN
Belgium
Tel. +32 3 265 3891
Fax +32 3 265 3777
e-mail:
benny.vanhoudt@uantwerpen.be

AT	Günter Haring	GB	Isi Mitrani	US	Leana Golubchik
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US	Gil Zussman
ZA	Pieter S. Kritzinger

WG 7.4 - Inverse Problems and Imaging
est. 2014

Chair
Prof. Dr. Christian CLASON
Universität Duisburg-Essen
Fakultät für Mathematik
Thea-Leymann-Str. 9
DE-45127 ESSEN
Germany
Tel. +49 201 183 7419
Fax +49 201 183 7420
e-mail: christian.clason@uni-due.de

Vice-Chair
Prof. Dr. Antonin CHAMBOLLE
CMAP
Ecole Polytechnique CNRS
Route de Saclay
FR-91128 PALAISEAU Cedex
France
Tel. +33 1 69 33 46 19
Fax +33 1 69 33 46 46
e-mail : antonin.chambolle @cmap.polytechnique.fr

Secretary
Prof. Dr. Barbara KALTENBACHER
Alpen-Adria-Universität
Institut für Mathematik
Universitätsstr. 65 - 67
AT-9020 KLAGENFURT
Austria
Tel. +43 463 2700 3120
Fax +43 463 2700 993120
e-mail: barbara.kaltenbacher@uni-klu.ac.at

AT	Kristian Bredies
AT	Thomas Pock
AT	Elena Resmerita
AT	Otmar Scherzer
BR	Antonio Leitao
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CN	Jun Zou
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US	Bangti Jin
US	Sung-Ha Kang
US	Stan Osher
US	Georg Stadler
US	Rachel Ward

WG 7.5 - Reliability and Optimization of Structural Systems
est. 1986

Chair
Prof. Dr. Daniel STRAUB
TU München
FB Risikoanalyse
Theresienstr. 90
DE-80333 MÜNCHEN
Germany
Tel. +49 89 289 23051
e-mail: straub@tum.de

Co-Chair
Prof. Matteo POZZI
Civil & Environmental Eng.
Carnegie Mellon University
5000 Forbes Ave.
111 Porter Hall
PITTSBURGH, PA 15213-3890
USA
Tel. +1 412 268 5649
Fax +1 412 268 7813
e-mail : mpozzi@cmu.edu

AU	R.E. Melchers	IT	Marcello Ciampoli	PL	Stefan Jendo
CA	Marc A. Maes	IT	M. Gioffre	PL	P. Sniady
CA	Mahesh D. Pandey	JP	M. Dogaki	PL	Zbigniew Zembaty
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IT	A. Bori	NL	P. Waarts	ZA	Radoslaw Iwankiewicz

WG 7.6 - Optimization-Based Computer Aided Modeling and Design
est. 1989 rev. 1999

Chair
Prof. Janusz GRANAT
Warsaw University of Techn.
Institute of Control and
Computation Engineering
ul. Nowowiejska 15/19
PL-00 665 WARSAW
Poland
Tel. +48 22 234 76 40
Fax +48 22 825 37 19
e-mail: j.granat@itl.waw.pl

Vice-Chair
Dr. Daniel R. DOLK
Naval Postgraduate School
Information Systems Academic
Group
MONTEREY, CA 93943
USA
Tel. +1 831 656 2260
Fax +1 831 656 3679
e-mail: drdolk@nps.navy.mil

AU	Edward Szczerbicki	DE	S. Voss	LT	A. Zilinskas
BE	H. Artiba	DE	Wolfgang S. Wittig	NL	Adrie J.M. Beulens
CA	Theodor Gabriel Crainic	FR	Y. Hamam	PL	M. Makowski
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DE	Helena Szczerbicka	LB	M. Salameh	US	T. Bui

WG 7.7 - Stochastic Optimization

est. 1989
URL: http://www.stoch.net/ifip_wg7_7.htm

Chair
Prof. Kurt MARTI
Federal Armed Forces Univ.
Munich
Aero-Space Eng. & Techn.
Werner Heisenberg-Weg 39
DE-85577 NEUBIBERG
Germany
Tel. +49 89 6004 2541 2560
Fax +49 89 6004 4092 3560
e-mail:
kurt.marti@unibw-muenchen.de

AT	Yuri Ermoliev	IT	Wolfgang J. Runggaldier	NZ	Andrew B. Philpott
BE	Francois Louveaux	LT	Jonas Mockus	RU	Vadim Iosifovich Arkin
CH	Karl Frauendorfer	NL	W.K. Klein Haneveld	US	John R. Birge
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Chair
Prof. George M. KASPER, US
Virginia Commonwealth University
School of Business
Department of Information Systems, Snead Hall
301 W. Main Street
RICHMOND, VA 23384-4000
USA
Tel. +1 804 827 0819
Fax +1 804 828 3199
e-mail: gmkasper@vcu.edu

Vice-Chair
Prof. John KROGSTIE, NO
IDI, NTNU
Sem Sælandsvei 7-9
NO-7030 TRONDHEIM
Norway
Tel. +47 73 59 36 77
Fax +47 73 59 44 66
e-mail: krogstie@idi.ntnu.no

Secretary
Prof. Isabel RAMOS, PT
Universidade do Minho
Escola de Engenharia
Departamento de Sistemas de Informação
Campus de Azurém
PT-4800 058 GUIMARAES
Portugal
Tel. +351 253 510317
Fax +351 253 510300
e-mail: iramos@dsi.uminho.pt

AR	Horacio P. Leone	FR	Agnès Front	NL	Henk Sol
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*) Expert member

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Chair
Dr. Jolita RALYTE
Université de Genève
Centre Universitaire d'Informatique – CUI
Battelle - bâtiment A
7, route de Drize
CH-1227 CAROUGE
Switzerland
Tel. +41 22 379 02 45
Fax +41 22 379 02 33
e-mail: jolita.ralyte@unige.ch

Vice-Chair
Prof. Janis STIRNA
Stockholm University
Department of Computer and Systems Sciences/DSV
Postbox 7003
SE-164 07 KISTA
Sweden
Tel. +46 8 16 41 99
e-mail: js@dsv.su.se

Secretary
Prof. John KROGSTIE
IDI, NTNU
Sem Sælandsvei 7-9
NO-7030 TRONDHEIM
Norway
Tel. +47 73 59 36 77
Fax +47 73 59 44 66
e-mail: krogstie@idi.ntnu.no

AT	Johann Eder	FR	Rébecca Deneckère	NL	Jan L. G. Dietz
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WG 8.2 - The Interaction of Information Systems and the Organization

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Chair
Prof. Ulrike SCHULTZE
Southern Methodist University
ITOM, Cox School of Business
PO Box 750333
DALLAS, TX 75275-0333
USA
Tel. + 1 214 768 4265
Fax + 1 214 768 4099
e-mail: uschultz@smu.edu

Vice-Chair
Dr. Eija Helena KARSTEN
Abo Akademi
School of Business and
Economics Information Systems
Henrikinkatu 7
FI-20500 TURKU
Finland
Tel. +358 2 215 3373
e-mail: eija.karsten@abo.fi

Secretary
Dr. Catherine MIDDLETON
Ryerson University
School of ITM
350 Victoria Street
TORONTO, ON M5B 2K3
Canada
Tel. +416 979-5000
e-mail:
catherine.middleton@ryerson.ca

Dr. Matthew JONES
University of Cambridge
Cambridge Judge Bus.School
Trumpington Street
CAMBRIDGE CB2 1AG
United Kingdom
Tel. +44 1223 338188
Fax +44 1223 339701
e-mail:m.jones@jbs.cam.ac.uk

AU	Deborah Bunker
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US	Youngjin Yoo
US	Robert W. Zmud
ZA	Walter Baets
ZA	Brian O'Donovan
ZA	Louise Whittaker

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Chair
Dr. Frédéric ADAM
University College Cork
Dept. of Accounting, Finance and Information Systems
O'Rahilly Building
CORK
Ireland
Tel. +353 21 90 33 43
Fax +353 21 27 15 66
e-mail: fadam@afis.ucc.ie

Vice-Chairs
Prof. Frada BURSTEIN
Monash University
Faculty of Information Technology
School of IMS
P.O. Box 197
CAULFIELD EAST 3145
Australia
Tel. +61 3 9903 2011
Fax +61 3 9903 1077
e-mail: frada.burstein@infotech.monash.edu.au

Dr. Ana Luisa RESPICIO
Universidade de Lisboa
Faculdade de Informatica
Bloco C6 – Piso 3
1749-016 LISBOA
Portugal
Tel. +351 21 7500522
Fax +351 21 7500084
e-mail: respicio@di.fc.ul-pt

Secretary
Prof. Gloria PHILLIPS-WREN
Loyola University Maryland
Sellinger School of Business
4501 N. Charles Street
Sellinger Hall 314
BALTIMORE, MD 21210
USA
Tel. +1 410 617 5470
Fax +1 410 617 2006
e-mail: gwren@loyola.edu

AT	Fatima Dargam
AT	Thomas Madritsch
AT	Rudolf Vetschera
AU	Brooke Abrahams
AU	David Arnott
AU	Fadl Bdeir
AU	Emilia Bellucci
AU	John Betts
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Chair
Dr. Edgar WEIPPL
SBA Research gGmbH
Favoritenstrasse 16, 2. Stock
AT-1040 WIEN
Austria
Tel. +43 1 505 36 88
Fax +43 1 505 88 88
e-mail:
eweippl@securityresearch.at

Vice-Chairs
Dr. Wichian CHUTIMASKUL
King Mongkut's University of Technology Thonburi
School of Information Technology
126 Pracha-U-Thit Rd.,
Bangmod, Thungkru
TH-BANGKOK 10140
Thailand
Tel. +66 2470 9849
Fax +66 2872 7145
e-mail: wichian@sit.kmutt.ac.th

Prof. Günther PERNUL
University of Regensburg
Dept. of Information Systems
Universitaetsstrasse 31
DE-93053 REGENSBURG
Germany
Tel. +49 941 943 2742
Fax +49 941 943 2744
e-mail:
guenther.pernul@wiwi.uni-regensburg.de

Secretary
Prof. Isao ECHIZEN
The Graduate University for Advanced Studies (SOKENDAI)
School of Multidisciplinary Sciences, Dep.of Informatics
2-1-2, Hitotsubashi, Chiyoda-Ku,
JP-101-8430 TOKYO
Japan
Tel. +81 3 4212 2516
Fax +81 3 4212 2120
e-mail: iechizen@nii.ac.jp

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Chair
Dr. Hans J. SCHOLL
University of Washington
The Information School
Mary Gates Hall, Suite 370C
MS352840
SEATTLE, WA 98195-2840
USA
Tel. +1 206 616 2543
Fax +1 206 616 3152
e-mail: jscholl@uw.edu

Vice-Chair
Dr. Marijn JANSSEN
Delft University of Technology
Faculty of Technology, Policy and Management
P.O. Box 5015
NL-2600 GA DELFT
The Netherlands
Tel. +31 15 278 1140
Fax +31 15 278 3741
e-mail:
m.f.w.h.a.janssen@tbm.tudelft.nl

Secretary
Dr. Olivier GLASSEY
Inst. de Hautes Etudes en Administration Publique
IDHEAP
Quartier UNIL Mouline
CH-1015 LAUSANNE
Switzerland
Tel. +41 21 557 4020
Fax +41 21 557 4009
e-mail:
olivier.glassey@idheap.unil.ch

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Chair
Prof. Deborah BUNKER
The University of Sidney
Business School
H70 – Abercrombie Bldg.
NSW 2006, Australia
Tel. +61 2 9351 7109
Fax +61 2 9351 7294
e-mail:
deborah.bunker@sydney.edu.au

Vice-Chairs
Dr. Eleanor WYNN
Research Scholar
Ronin Institute
WEST LINN, OR 97068
USA
e-mail:
eleanorwynn3@gmail.com

Prof. David WASTELL
Nottingham University Business School
NOTTINGHAM NG8 1BB
United Kingdom
Tel. +44 115 8467783
e-mail:
david.wastell@nottingham.ac.uk

Secretary
Dr. Yogesh DWIVEDI
Swansea University
Swansea Univ.Business School
Inf.Systems & E-Business
Singleton Park, Haldane Bldg.
SWANSEA SA2 8PP, Wales
United Kingdom
Tel. +44 1792 602340
Fax +44 1792 295626
e-mail:
y.k.dwivedi@swansea.ac.uk

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Chair
Prof. A Min TJOA
Vienna University of Technology
Institute of Software Technology
Favoritenstr. 9 -11/188
AT-1040 VIENNA
Austria
Tel. +43 1 5880 18800
Fax +43 1 504 05 32
e-mail: amin@ifip.org

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Prof. Li Da XU
Old Dominion University
Department of Information Technology and Decision Sciences
2076 Constant Hall
NORFOLK, VA 23529, USA
Tel. +1 757 683 6138
e-mail: lxu@odu.edu

Second Vice-Chair
Prof. Maria RAFFAI
Széchenyi István University
Faculty for Information Science and Electrical Engineering
Egyetem tér 1
HU-9026 GYÖR, Hungary
Tel. +36 96 613 525
Fax +36 96 613 525
e-mail: maria.raffai@gmail.com

First Secretary
Prof. Ling LI
Old Dominion University
Department of Information Technology and Decision Sciences
2064 Constant Hall
NORFOLK, VA 23529
USA
Tel. +1 757 683 6455
Fax +1 757 683 5800
e-mail: lli@odu.edu

Second Secretary
Prof. Sohail CHAUDHRY
Villanova University
Faculty for Operations
VILLANOVA, PA 19085
USA
Tel. +1 610 519 4369
e-mail:
sohail.chaudhry@villanova.edu

AT	Erich Neuhold	CZ	Josef Basl	ID	Khabib Mustofa
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Chair
Prof. H. Raghav RAO
University at Buffalo
Mgmt. Science and Systems
School of Management
325C Jacobs Mgmt. Center
BUFFALO, NY 14260-4000
USA
Tel. +1 716 645 3425
e-mail: mgmtrao@gmail.com

Vice-Chair
Dr. Allen JOHNSTON
University of Alabama at Birmingham
Management, Information Systems and Quantitative Methods
School of Business
BIRMINGHAM, AL 35294-4460
USA
Tel. +1 205 934 8870
e-mail: ajohnston@uab.edu

Secretary
Dr. Tejaswini HERATH
Brock University
Dept. of Finance, Operations and Information Systems
Taro Hall Room 366
Goodman School of Business
500 Glenridge Ave
ST. CATHERINES, ON L2S 3A1
Canada
Tel. +1 905 688 5550 4179
e-mail: therath@brocku.ca

Editor
Dr. Anthony VANCE
Brigham Young University
Marriott School of Management
Inf. Systems Department
Office 779 TNRB
PROVO, UT 84602
USA
Tel. +1 801 361 2531
e-mail: anthony@vance.name

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Chair
Dr. David KREPS, GB
University of Salford
Salford Business School
M225 Maxwell Building
43 The Crescent
SALFORD M5 4WT
United Kingdom
Tel. +44 161 295 5884
e-mail: d.g.kreps@salford.ac.uk

Vice-Chairs
Dr. William McIVER, Jr. CA
New Brunswick Community College
NSERC Ind. Research Chair
284 Smythe Street
FREDERICTON, NB E3B 3C9
Canada
e-mail: bill.mciver@nbcc.ca

Secretary
Dr. Oliver BURMEISTER, AU
School of Comp. & Mathematics
Charles Sturt University
Locked Bag 588
WAGGA WAGGA, NSW 2678
Australia
Tel. +61 2 6933 2591
Fax +61 2 6933 2080
e-mail: oburmeister@csu.edu.au

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Chair
Prof. Jungwoo LEE
Yonsei University
Graduate School of Information
NMH 412
50 Yonsei Ro
Seodaemun-gu
SEOUL 120-749
Republic of Korea
Tel. +82 2 2123 4526
e-mail: jlee@yonsei.ac.kr

Vice-Chair
Prof. Mary Beth WATSON-MANHEIM
Department of Information and Decision Sciences
Univ. of Illionois at Chicago
CHICAGO, Illinois 60607
USA
Tel. +1 312 996 2370
e-mail: mbwm@uic.edu

Secretary
Prof. Dr. Stefan KLEIN
Dept. of Information Systems
Westfälische Wilhelms-Universität Münster
Leonardo-Campus 11
100.028 (028)
DE-48149 MÜNSTER, Germany
Tel. +49 251 83 38111
Fax +49 251 83 38119
e-mail: stefan.klein@uni-muenster.de

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Chair
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The Castlegate Consultancy
27 Castlegate
MALTON, YO 17 7DP
North Yorkshire,
United Kingdom
e-mail: diane.whitehouse[@]thecastlegateconsultancy.com

Vice-Chairs
Mr. Marc VAN LIESHOUT
TNO Information and Communication Technology
P.O. Box 5050
NL-2600 GB DELFT
The Netherlands
Tel. +31 15 2857125
Fax +31 15 2857382
e-mail: marc.vanlieshout@tno.nl

Prof. Norberto PATRIGNANI
Universita Cattolica di Milano
Largo Gemelli 1
IT-20123 MILANO
Italy
e-mail:
norberto.patrignani@unicatt.it

Vice-Chairs
Prof. Philippe GOUJON
Computer Science Institute
University of Namur (FUNDP)
rue Grandgagnage, 21
BE-5000 NAMUR
Belgium
Tel. +32 81 72 41 08
Fax +32 81 72 49 67
e-mail:
philippe.goujon@fundp.ac.be

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DE	Philip Schuetz***	GB	Christopher Zielinski	SE	Thomas Taro Lennerfors
ES	Porfirio Barroso Asenjo	GR	Ioannis Karydis***	SE	Anita Mirijamdotter***
ES	Juana Maria Sancho Gil	IE	Brandt Dainow	SE	Christina Mörtberg***
ES	Ramon Puigjaner	IE	Mike Hinchey***	SE	Helene Richardsson***
FI	Olli Heimo	IN	T V Gopal***	SE	Fabian von Scheele***
FI	Eija Kaasinen***	IN	Rowena Rodrigues***	SE	Josefin Wangel***
FI	Kai Kimppa	IT	Alberto Cammozzo***	SE	Gunnar Wenngren
FI	Jani Koskinen	IT	Vincenzo d'Andrea***	SE	Louise Yngstrom*
FI	Anne-Marie Tuikka***	IT	Fiorella De Cindio***	SI	Franci Pivec
FR	Amelie Bohas***	IT	Emilio d'Orazio	US	Don Gotterbarn
FR	Christina Herzog******	IT	Claudio Pastore******	ZA	Louise Leenen**
FR	Romain Laufer	IT	Viola Schiaffonati	ZA	Jackie Phahlamohlaka**
GB	Patricia Bertini***	IT	Giovanna Sissa		

*) Honorary member
**) Associate member
***) Friend

SIG 9.2.2 - Framework on Ethics of Computing

URL: http://www.info.fundp.ac.be/~jbl/IFIP/cadresIFIP.html

Chair
Dr. Penny DUQUENOY
Middlesex University
School of Engineering and
Information Sciences
The Burroughs
LONDON NW4 4BT
United Kingdom
Tel. +44 20 8411 4333
Fax +44 20 8411 6943
e-mail: p.duquenoy@mdx.ac.uk

Vice-Chair
Dr. Kai K. KIMPPA
University of Turku
Dept. of Inf. Technology
FI-20014 Univ. of TURKU
Finland
Tel. +358 2 333 8665
Fax +358 2 333 8600
e-mail: kai.kimppa@utu.fi

AU	Oliver Burmeister	ES	Juana M. Sancho Gil	NL	Aimee van Wynsberghe*
AU	Julie Cameron	FI	Olli Heimo	SE	Gunnar Wenngren
AU	John Weckert	GB	Carlisle E. George	SI	Franci Pivec
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BE	Philippe Goujon	GB	T.Richard Sizer	US	Don W. Gotterbarn*
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DE	Wolfgang Coy	GB	Christopher Zielinski	US	Dianne Martin *
DE	Debora Weber-Wulff	GR	Vassilios Laopodis	ZA	Andrew Morris
ES	Porfirio Barroso Asenjo	IT	Norberto Patrignani*		

*) Guests
**) Corresponding member

WG 9.3 - Home Oriented Informatics and Telematics

est. 1988, revised 1989
URL: http://hoit2000.scit.wlv.ac.uk

Chair
Prof. Alladi VENKATESH
University of California
CRITO (Center for Research
on Information Technology)
3200 Berkeley Place
IRVINE, CA 92697
USA
Tel. +1 949 824 1134
Fax +1 949 824 8091
e-mail: avenkate@uci.edu

Vice-Chair
Mrs. Kathy BUCKNER
Napier University
School of Computing
Merchiston Campus
EDINBURGH EH10 5DT
United Kingdom
Tel. +44 131 455 2775

Secretary
Dr. Claire DORMANN
Carleton University
HOT Lab
1125 Colonel By Drive
OTTAWA, ON K1S 5B6
Canada
Tel. +1 613 520 2600 6627
Fax +1 613 520 3667
e-mail:
cdormann@connect.carleton.ca

AU	P. Jones	GB	W. Huang	NL	Berry Eggen
CA	Geoff Cragg	GB	D. Lawrence	NL	Felix van Rijn
DK	Kresten Bjerg	GB	A. Monk	NO	Richard Ling
DK	Marianne Graves Petersen	GB	Tony Proctor	SE	Gunilla Bradley
ES	Yves Punie	GB	Andy Sloane	SE	S. Junestrand
GB	Lynne Baillie	GB	J. Taylor	SE	Ulf Keijer
GB	D. Beynon	HU	Andras Galambosi	SE	L. Sturesson
GB	Leslie Haddon	JP	K. Go		

WG 9.4 - Social Implications of Computers in Developing Countries

est. 1989, revised 2007
URL: http://www.ifipwg94.org

Chair
Prof. Robert DAVISON
City University of Hong Kong
Dept. of Information Systems
6-247, Lau Ming Wai
Academic Building
83 Tat Chee Avenue
KOWLOON, HONG KONG
China
Tel. +852 3442 7534
Fax +852 3442 0370
e-mail: isrobert@cityu.edu.hk

Vice-Chairs
for African Region:
Dr. Jonathan MILLER
Miller Esselaar & Associates
P O Box 26138
HOUT BAY 7872
South Africa
Tel. +27 21 790 1327
Fax +27 21 790 1327
e-mail: jonmil@icon.co.za

for Asian Region:
Dr. Roger W. HARRIS
5/B Angel Court
Ville de Cascade
No. 2 Lai Wo Lane
Shatin, New Territories
HONG KONG
China
e-mail: roger.harris@rogharris.org

for Latin America:
Prof. Renata La ROVERE
Universidade Federal do Rio de Janeiro
Instituto de Economia
Avenue Pasteur 250
BR-22290-240 RIO DE JANEIRO
Brazil
Fax +55 21 541 8148
e-mail: renata@ie.ufrj.br

Secretary
Dr. Arlene BAILEY
The University of the West Indies
Dept. of Sociology, Psychology And Social Work
MONA
Jamaica
Tel. +1876 977 0646 3309
Fax +1876 977 9301
e-mail: arlene.bailey@uwimona.edu.jm

AE	Fadi Salem
AL	Neki Frasheri
AR	Manuel Acevedo
AU	Atma Ram Ghimire
AU	Helena Grunfeld
AU	Graeme Johanson
AU	Donna Vaughan
BB	Stewart Bishop
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BD	Sujoy Kumer Sharma
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IE	Roy H.W. Johnston
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IN	Trishanjit Kaur
IN	Praveen Kumar
IN	P V S Kumar
IN	D.P. Prathap
IN	Nimmi Rangaswamy
IN	Kasina Venkateshwar Rao
NO	Jorn Braa
NO	Bjorn Furuholt
NO	Jens Kaasbøll
NO	Septarshi Purkayastha
NO	Sundeep Sahay
NO	Zeferino Saugene
NO	Maung K. Sein
NO	Lars T. Soeftestad
NP	Ranendra Adhikari
NP	Reg Bahadur Bhandari
NP	Pat Hall
NP	Tilak Jang Khadka
NP	Pragya Khatiwada
NP	Hempal Shrestha
NZ	Sharad Babu Shrestha
NZ	Antonio Diaz Andrade
NZ	Felix B. Tan
NZ	Ranjan Vaidya
PH	Ronald Vyhmeister
SE	Elly Amani Gamukama
SE	M. Sirajul Islam
SE	Florence Kivunike
SE	Per Lind
SE	Gudrun Wicander
TG	Mohammed L. Mansaray
TH	Krisana Kitiyadisai
TZ	Juma Lungo
TZ	Hector Mongi
TZ	Faith Shayo
UG	Nora Mulira

DK	Omar Faisal	IN	Biswajit Saha	US	Abiodun Bada
ET	Zeleke Abebaw	IN	Usha Srinath	US	John A. Dobson
ET	Dagmawi Lemma Gobena	IN	N. Suresh	US	Carl Hope Korkpoe
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GB	Julian M. Bass	MY	Al-Khalid Othman	ZA	Samantha Fleming
GB	Roger Boyle	MY	Alvin Yeo	ZA	Retha de la Harpe
GB	Ping Gao	MY	Tariq Zaman	ZA	Mario Marais
GB	Patrick Hall	NG	Hettie Abimbola Soriyan	ZA	Molefi Motsoenyane
GB	G. Harindranath	NL	Emile Dopheide	ZA	Mogen Naidoo
GB	Niall Hayes	NL	Gianluca Miscione	ZA	Hossana Twinomurinzi
GB	Richard Heeks				

This list of members comprises those who have signed up at www.ifipwg94.org. Some members, those who have chosen not to provide full personal information, are not included here. The working group has established a 17 member board working to develop events and activities around the globe.
The IFIP Working Group 9.4 on the Social Implications of Computers in Developing Countries invites seek to involve members from the global south who may not always be able to attend IFIP events in person. They encourage those interested in their work to sign up through their web site www.ifipwg94.org.

WG 9.5 – Virtuality and Society

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URL: http://www.ifip95wg.org

Chair
Dr. David KREPS
University of Salford
Salford Business School
Maxwell 511f
SALFORD
Greater Manchester M5 4WT
United Kingdom
Tel. +44 161 295 5884
e-mail: d.g.kreps@salford.ac.uk

Vice-Chair
Dr. Marie GRIFFITHS
University of Salford
Salford Business School
Room 325, Maxwell Building
SALFORD
Greater Manchester M5 4WT
United Kingdom
Tel. +44 161 295 4237
e-mail:
m.griffiths@salford.ac.uk

Secretary
Dr. Petros CHAMAKIOTIS
School of Business,
Management and
Economics**Error! Bookmark not defined.**
University of Sussex
Jubilee 211
BRIGHTON, BN1 9SL
United Kingdom
e-mail:
p.chamakiotis@sussex.ac.uk

AU	Oliver Burmeister	GB	Niki Panteli	GR	Athina Stavridou
CY	Andreas Pitsillides	GB	Maha I. Shaikh	TW	Joyce Yi-Hui Lee
CY	Panagiotis Zaharias	GB	Nicola Strong	US	Esther Baldwin
DE	Claus Pias	GB	Brian K. Temple	US	Kevin Crowston
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GB	Elizabeth Duncan	GR	Anthony Papargyris	US	Mary Beth Watson-Manheim
GB	Gordon Fletcher	GR	Angeliki Poulymenakou	US	Kanghing Wei
GB	Brad McKenna	GR	Aikaterini Riviou		

WG 9.6/11.7 - Information Technology: Misuse and the Law

est. 1990, revised 1992, 2000
URL: http://www.cs.kau.se/~simone/ifip-wg-9.6/wg96.htm

Chair
Prof. Dr. Kai RANNENBERG
Goethe University Frankfurt
Theodor-W.-Adorno-Platz 4
DE-60629 FRANKFURT/MAIN
Germany
Tel. +49 69 798 34701
Fax +49 69 798 35004
e-mail:
kai.rannenberg@m-chair.de

Vice Chair
Dr. Eleni KOSTA
Tilburg University
TILT -Tilburg Institute for Law, Technology, and Society
P.O. Box 90153
NL-5000 LE TILBURG
The Netherlands
Tel. +31 13 466 4001
e-mail:
e.kosta@tilburguniversity.edu

Secretary
Mr. Gunnar WENNGREN
SENIOR Consult
AB Wenngrens i Linköping
Söreboda
SE-590 52 NYKIL
Sweden
Tel. +46 13 33 30 48
e-mail: gunwe@telia.com

AU	Olujoke Akindemowo
AU	Philip Argy
AU	Roger Clarke
AU	Andrew Freeman
AU	Anthony Willis
AT	Martin Latzenhofer
BE	Bieke Spruyt
BG	Nelly Ognyanova
CH	Beat Lehmann
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NZ	Pradeep Navalkar (SEARCC)
PL	Michal Golinski
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SE	Louise Yngstrom
SE	Albin Zuccato
SK	Daniel Olejar
SK	Jozef Vyskoc
US	Vijay Masurkar

WG 9.7 - History of Computing

est. 1992
URL: http://www.CompHist.org

Chair
Dr. Christopher LESLIE
New York University
Tandon School of Engineering
6 Metro Tech Center
BROOKLYN, NY 11201
USA
Tel. +1 718 260 3130
e-mail:
chrisleslienyc@hotmail.com

Vice Chair
Dr. Martin SCHMITT
Centre for Contemporary History
Am Neuen Markt 1
DE-14467 POTSDAM
GERMANY
Tel. +49 331 74510-119
Fay +49 331 74510-143
e-mail: schmitt@zzf-pdm.de

Secretary
TBD

AT	René Riedl
AU	Chris Avram
AU	Maxwell Burnet
AU	William Caelli
AU	Bill Davey
AU	John Deane
AU	Graham Farr
AU	Peter Juliff
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NL	Gauthier van den Hove
NL	Herman Spanjersberg
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NO	Norman Sanders
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RU	Shilov Valery
SE	Janis Bubenko

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DE	Horst Zuse	IS	Magnus Magnússon	US	John A. N. Lee
DK	Erik Bruhn	IT	Nadia Ambrosetti	US	Julian Reitman
DK	Lars Heide	IT	Corrado Bonfanti	US	Jeffrey Yost
		IT	Fabio Gadducci		

WG 9.8 – Gender Diversity and ICT
est. 2001, revised 2009

Chair
To be determined

AT	Margit Pohl	DE	Veronika Oechtering	NG	Hettie Abimbola Soriyan
AU	Annemieke Craig	DE	Heidi Schelhowe	NL	Steffie Janssen
AU	Julie Fisher*	DK	Sisse Finken	NL	Ellen C. J. van Oost
AU	Liisa A. von Hellens	FI	Tarja Tiainen*	NL	Els Rommes*
AU	Susan Myburgh	FI	Marja Vehvilainen	NP	Sharda Singh Khati
AU	Paula Roberts	GB	Alison Adam	NO	T. Panes
AU	Toni Robertson	GB	Eileen Green	SE	Anna Croon Fors*
AU	Angela Scollarly	GB	Frances Grundy	SE	Christina Mörtberg
CR	Gabriela Marin*	GB	Clem Herman*	SE	Johanna Sefyrin
DE	Corinna Bath*	GB	Gregory John Michaelson	US	Susan Smith
DE	Britta Schinzel	GB	Eva Turner	US	Eileen Trauth*

*) Regional coordinators

WG 9.9 - ICT and Sustainable Development
est. 2005
URL: http://www.ict-sd.org/

Chair
Dr. Magda DAVID HERCHEUI
UCL School of Management
University College London
Gower Street
LONDON WC1E 6BT
United Kingdom
Tel. +44 20 7679 3782
e-mail: m.hercheui@ucl.ac.uk

Secretary
Prof. Peter FLEISSNER
Vienna University of Technology
Institute fuer Gestaltungs- und Wirkungsforschung
Favoritenstrasse 9-11
AT-1040 WIEN
Austria
Tel. +43 1 58801 18735
Fax +43 1 58801 18793
e-mail:
peter.fleissner@igw.tuwien.ac.at

AT	Wolfgang Hofkirchner	DE	Ignazio Campino	JP	Taeko Aoe
AT	Werner Pillmann	DE	Lorenz Erdmann	PL	Jan Studzinski
BE	Maja Andjelkovic	DE	Justus von Geibler	SE	Peter Arnfalk
BE	Peter Johnston	DE	Michael Kuhndt	SE	Gunilla Bradley
BE	Vassilios Laopodis	HU	Robert Pinter	TH	Krisana Kitiyadisai
CA	William McIver, Jr.	HU	Miklos Sükösd	US	Eric Williams
CH	Lorenz Hilty	IN	K K Aggarwal	ZA	Wallace Chigona
DE	Gerhard Banse				

WG 9.10 - ICT Uses in Peace and War
est. 2013
URL: http://ifiptc9.csir.co.za/WG10/members.html

Chair
Dr. Louise LEENEN
Council for Scientific and
Industrial Research - CSIR
DPSS
P.O. Box 395
PRETORIA 0001
South Africa
e-mail: lleenen@csir.co.za

Vice-Chair
Dr. Leigh ARMISTEAD, CISSP
Peregrine Technical Solutions
114 Ballard Street
P. O. Box 520
YORKTOWN, VA 23690-0520
USA
Tel. +1 757 581 9550
e-mail: larmistead@gbpts.com

Secretary
Dr. Brett van NIEKERK
University of KwaZulu-Natal
School of Management, IT
and Governance
Westville Campus, University Rd.
WESTVILLE 3600
South Africa
Tel. +27 31 260 8521
e-mail: vanniekerkb@ukzn.ac.za

AE	Marios P. Efthymiopoulos
AR	Maximiliano Korstanje
AU	Oliver Burmeister
AU	John Martino
AU	Matthew Warren
CA	Juan Castillo
DK	Anne Gerdes
FI	Olli Heimo
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IN	Bhupindar Singh
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PK	Jawad Hussain Awan
PK	Shahzad Ahmed Memon
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ZA	Amit Kumar Mishra
ZA	Francois Mouton
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ZA	Jackie Phahlamohlaka
ZA	Kiru Pillay
ZA	Trishana Ramluckan
ZA	Basie von Solms
ZA	Rossouw von Solms
ZA	Joey Jansen van Vuuren

TC 10 - Computer Systems Technology

est. 1976, revised 1987
URL: http://www.inf.ufrgs.br/ifip/

Chair
Prof. Ricardo REIS, BR
Universidade Federal do Rio Grande do Sul
Instituto de Informática
Av. Bento Goncalves, 9500
Campus do Vale, Bloco IV
C.P. 15064
BR-91501-970 PORTO ALEGRE
Brazil
Tel. +55 51 3316 9500
Fax +55 51 3316 7308
e-mail: reis@inf.ufrgs.br

Secretary
Prof. Paolo PRINETTO, IT
Politecnico di Torino
Dipart. di Automatica e Inf.
Corso Duca degli Abruzzi 24
IT-10129 TORINO
Italy
Tel. +39 011 5647007
Fax +39 011 5647099
e-mail:
paolo.prinetto@polito.it

AR	Patricia Borensztejn	ES	Juan-Carlos López	NO	Olav Landsverk
AT	Alois Ferscha	FR	Karama Kanoun	PL	Jerzy Brzezinski
BG	Valentin Pavlov	GR	V. Goudela	PT	Joao M. Fernandes
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ex-officio members: WG Chairs

WG 10.2 Embedded Systems

est. 2006
URL: http://www.ifipwg102.org

Chair
Prof. Achim RETTBERG.
Hella KGaA Hueck & Co
and Carl von Ossietzky
University Oldenburg
Ammerländer Heerstr. 114-118
DE-26129 OLDENBURG
Germany
Tel. +49 441 9722 247
Fax +49 441 9722 282
e-mail: achim.rettberg@iess.org

Vice-Chair
Prof. Marco WEHRMEISTER
Federal University of Technology-Parana (UTFPR)
Inform. Department (DAINF)
Av. Sete de Septembro, 3165
CEP 80230-902 CURITIBA - PR
Brazil
Tel. + 55 41 3310 4745
Fax + 55 41 3310 4646
e-mail: wehrmeister@utfpr.edu.br

Publications Chair
Ms. Ina PODOLSKI
Carl von Ossietzky
University Oldenburg
Ammerländer Heerstr. 114-118
DE-26129 OLDENBURG
Germany
e-mail: ina.podolski@iess.org

AT	Hermann Kopetz	DE	Franz Rammig	PT	Henriquè Santos
AT	Peter Puschner	DE	Klaus Schneider	SE	Petru Eles
AT	Bernhard Rinner	DE	Bernhard Steffen	SE	Björn Lisper
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BR	Luigi Carro	DK	Jan Madsen	SI	Matjac Colnaric
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BR	Carlos E. Pereira	FR	Thierry Jeron	US	Thomas Conte
BR	Flavio R. Wagner	FR	Ahmed Jerraya	US	Nikil Dutt
CA	Uwe Glässer	FR	Jean-Marc Jezequel	US	Guang Gao
CA	Laurence T. Yang	FR	Luis-Miguel Santana Ormeno	US	Rajesh Gupta
CH	Bernhard Eschermann	FR	Francois Terrier	US	Graham Hellestrand
CH	Lothar Thiele	GB	Guillem Bernat	US	Mary Jane Irwin
DE	Rolf Ernst	GB	Raimund Kirner	US	Edward Lee
DE	Gerhard Fohler	NL	Ed Brinksma	US	Vincent J. Mooney III
DE	Wolfgang Halang	PT	Luis Almeida	US	Frank Mueller
DE	Bernd Kleinjohann	PT	Joao M. Fernandes	US	Janos Sztipanovits
DE	Lisa Kleinjohann	PT	Ricardo Machado	US	Marilyn Wolf
DE	Roman Obermaisser	PT	Luis Pinho	US	Ying C. Yeh

WG 10.3 Concurrent Systems

est. 1978, revised 1979, 1988
URL: http://www.ifipwg103.org

Chair
Dr. Valentina SALAPURA
IBM
Watson Research Center
Route 134
YORKTOWN HEIGHTS,
N.Y. 10598, USA
Tel: + 1 914 945 3421
e-mail: salapura@us.ibm.com

Vice-Chair
Prof. Paraskevas EVRIPIDOU
University of Cyprus
Dept. of Computer Science
P.O. Box 20537
CY-1678 NICOSIA
Cyprus
Tel: +357 22 892696
e-mail: skevos@cs.ucy.ac.cy

Prof. Lawrence
RAUCHWERGER
Texas A&M University
Department of Computer
Science and Engineering
Parasol Laboratory
Office 425E HRBB
COLLEGE STATION,
TX 77843-3112, USA
Tel: +1 979 845 8872
Fax +1 979 458 0718
e-mail: rwerger@cse.tamu.edu

Secretary
Prof. Sally A. McKEE
Chalmers University
Dept. of Computer Science
SE-41296 GOTHENBURG
Sweden
Tel: +46 31 772 1668
e-mail: mckee@chalmers.se

AT	Hans Zima	FR	Michel Raynal	PT	Leonel Sousa
AU	Gregory Kenn Egan	GB	Roland Ibbett	SE	Gunnar Carlstedt
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FR	Bertil Folliot	NL	Chris Jesshope	US	Thomas Sterling
FR	Claude Girault	NL	Andy Pimentel		

WG 10.4 Dependable Computing and Fault Tolerance

est. 1980, revised 1988
URL: http://www.dependability.org/wg10.4/

Chair
Prof. Paulo VERISSIMO
SnT-Interdisciplinary Centre for Security, Reliability and Trust
4, rue Alphonse Weicker
LU-2721 LUXEMBOURG
Luxembourg
Tel. +351 21 750 01 87
Fax +351 21 750 00 84
e-mail: paulo.verissimo@uni.lu

Vice-Chair
Prof. Yair AMIR
Dept. of Computer Science
John Hopkins University
160 Malone Hall
3400 N. Charles Street
BALTIMORE, MD 21218
USA
Tel. +1 301 806 4803
e-mail: yairamir@cs.jhu.edu

AT	Hermann Kopetz*	IT	Luca Simoncini*	US	Matti A. Hiltunen
AT	Stefan Poledna	JP	Xavier Defago	US	Ravishankar K. Iyer
AU	Gernot Heiser	JP	Hirokazu Ihara*	US	Farnam Jahanian
BR	Elaine Martins	JP	Nobyyasu Kanekawa	US	William C. Jones*
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DE	Mario Dal Cin*	JP	Takashi Nanya	US	Philip Koopman
DE	Christof Fetzer	JP	Yoshihiro Tohma*	US	Jaynarayan H. Lala
DE	Günter Heiner*	JP	Haruo Yokota	US	Carl E. Landwehr*
DE	Neeraj Suri	JP	Tomohiro Yoneda	US	Roy A. Maxion
FR	Jean Arlat	LT	Algirdas Avizienis*	US	Edward J. McCluskey
FR	Alain Costes	PT	Antonio Casimiro	US	John F. Meyer*
FR	Mohamed Kaaniche	PT	Henrique Madeira	US	Priya Narasimhan
FR	Karama Kanoun	PT	Nuno Neves	US	Christina Nita-Rotaru
FR	Gilles Muller	PT	Marco Vieira	US	Harigovind Ramasamy
FR	David Powell	SE	Johan Karlsson	US	David A. Rennels*
GB	Tom Anderson	SE	Jan Torin*	US	John Rushby
GB	Bev Littlewood*	TW	Sy-Yen Kuo	US	William H. Sanders
GB	Aad van Moorsel	SA	Mootaz Elnozahy	US	O. Sami Saydjari
GB	Brian Randell*	US	Jacob A. Abraham	US	Richard Schlichting
GB	Lorenzo Strigini	US	Doug Blough	US	Daniel P. Siewiorek
GB	Robert J. Stroud	US	Nicholas S. Bowen	US	T. Basil Smith*
HU	Andras Pataricza	US	Ram Chillarege	US	Lisa Spainhower*
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IT	Andrea Bondavalli	US	George C. Gilley*	US	Chris J. Walter
IT	Felicita Di Giandomenico	US	Jack Goldberg*	US	Charles B. Weinstock
IT	Michele Morganti*	US	Walter Heimerdinger*	US	Saman Zonouz

*) Member emeritus

WG 10.5 Design and Engineering of Electronic Systems

est. 1981, revised 1988, merged with WG 10.2 in 1994, rev. 2003

URL: http://tima.imag.fr/ifip/wg10-5/index.html

Chair

Prof. Masahiro FUJITA
University of Tokyo
Department of Electronics Engineering
7-3-1 Hongo
Bunkyu_ku
TOKYO 113-8656
Japan
Tel. +81 03 5841 6664
Fax +81 03 5841 6724
e-mail: fujita@ee.t.u-tokyo.ac.jp

Vice-Chairs

Prof. Srinivas KATKOORI
University of South Florida
CSE Dept., College of Engineering
4202 East Fowler Ave. ENB 118
TAMPA FL, 33620
USA
Tel. +1 813 974 5737
Fax +1 813 974 5456
e-mail: katkoori@cse.usf.edu

Prof. Lionel TORRES
University of Montpellier 2/CNRS
LIRMM
161 Rue ADA
FR-34392 MONTPELLIER 2
France
Tel. +33 4 67 41 85 67
Fax +33 4 67 41 85 00
e-mail: lionel.torres@lirmm.fr

AE	Ibrahim Elfadel	DE	Peter Schwarz*	JP	Osamu Karatsu*
BE	Luc Claesen	ES	Jose L. Ayala	JP	Akihiko Yamada
BR	Ricardo Reis	ES	Carlos Delgado Kloos*	KR	Kiyoung Choi
BR	Flavio R. Wagner	ES	Eugenio Villar	PL	Adam Pawlak
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DE	Klaus D. Müller-Glaser	IT	Graziano Pravadelli	US	Hillel Ofek
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DE	Wolfgang Rosenstiel	JP	Takashi Kambe	US	John Willis*

*) Honorary member

TC 11 - Security and Privacy Protection in Information Processing Systems

est. 1984, revised 2006, 2009
URL: www.ifiptc11.org

Chair
Prof. Steven FURNELL, GB
Plymouth University
School of Computing, Electronics and Mathematics
PLYMOUTH, PL4 8AA
United Kingdom
Tel. +44 1752 586234
e-mail: sfurnell@plymouth.ac.uk

Vice-Chairs
Prof. Dr.ir. Bart De DECKER, BE
Katholieke Universiteit Leuven
Dept. of Computer Science
iMinds-DistriNet
Celestijnenlaan 200 A
BE-3001 LEUVEN (Heverlee)
Belgium

Prof. Dr. Ingrid SCHAUMÜLLER-BICHL, AT
Information Security Compliance Center ISCC
University of Applied Sciences Upper Austria
Hafenstrasse 47–51 (Techcenter)
AT-4020 LINZ
Austria
Tel. +43 5 0804 11730
e-mail: ingrid.schaumueller-bichl@fh-ooe.at

Secretary
Prof. Lech J. JANCZEWSKI, NZ
The University of Auckland
Dept. of ISOM
Private Bag 92019
Owen G Glenn Building
12 Grafton Road, Room 480
NZ-1142 AUCKLAND
New Zealand
Tel. +64 9 923 7538
Fax +64 9 373 7430
e-mail: lech@auckland.ac.nz

AU	William J. Caelli*	DK	Gert Læssøe Mikkelsen	NL	Leon Strous*
AU	Peter Lambert	ES	F. Javier López-Muñoz	NO	Audun Jøsang
BG	Zlatogor Minchev	FI	Teemupekka Virtanen	PL	Norbert Meyer
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DE	Kai Rannenberg*	NL	Abbas Shahim	ZW	Mudiwa Mvere

ex-officio members: WG Chairs

WG 11.1 Information Security Management

est. 1985, revised 1992
URL: http://www.cscan.org/ifip

Chair
Dr. Karin HEDSTRÖM
Örebro University
Swedish Business School
SE-70182 ÖREBRO
Sweden
Tel. +46 19 33 25 46
Fax +46 19 30 12 41
e-mail: karin.hedstrom@oru.se

Vice-Chair
Dr. Spyridon SAMONAS
California State University
College of
Business Administration
1250 Bellflower Boulevard
LONG BEACH, CA 90840
USA
Tel. +1 562 985 5672
Fax +1 703 997 2516
e-mail:
spiro.samonas@csulb.edu

Secretary
Dr. Paul HASKELL-DOWLAND
Edith Cowan University
School of Science
270 Joondalup Drive
JOONDALUP, WA 6027
Australia
Tel. +61 8 6304 5039
e-mail:
p.haskelldowland@ecu.edu.au

AT	Stefan Fenz	GB	Jean-Noel Ezingeard	NZ	Dong-Seong Kim
AT	Stefan Jakoubi	GB	Steven Furnell	PL	Andrzej Bialas
AT	Simon Tjoa	GB	Maria Papadaki	PT	Henrique Santos
AU	Helen Armstrong	GB	Muttukrishnan Rajarajan	SA	Diala Abi Haidar
AU	Sean Maynard	GB	Karen Renaud	SA	Abdulrahman Mirza
AU	Malcolm R. Pattinson	IN	Mukhopadhyay Arunabha	SE	Rose-Mharie Åhlfeldt
AU	Matthew Warren	IN	Roshan Narkhede	SE	Albin Zuccato
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GR	Dimitrios Michalopoulos	NO	Annikken Seip	ZA	Kerry-Lynn Thomson
GB	Nathan Clarke	NZ	Lech Janczewski	ZA	Rossouw von Solms
GB	Neil Doherty				

WG 11.2 Pervasive Systems Security

est. 1985, revised 1992, 1995, 2009
URL: http://wg112.ifiptc11.org/

Chair
Dr. Damien SAUVERON
Université de Limoges/CNRS
XLIM Institut de Recherche
Site Jidé, 83 rue d'Isle
FR-87000 LIMOGES
France
Tel. +33 5 55 43 69 83
Fax +33 5 55 43 69 77
e-mail: damien.sauveron@xlim.fr

Vice-Chair
Dr. Konstantinos MARKANTONAKIS
Royal Holloway,
University of London
Information Security Group
EGHAM, Surrey TW20 0EX
United Kingdom
Tel. +44 1784 414409
e-mail:
k.markantonakis@rhul.ac.uk

Secretary
Dr. Raja Naeem AKRAM
Royal Holloway,
University of London
Information Security Group
EGHAM, Surrey TW20 0EX
United Kingdom
Tel. +44 1784 276351
e-mail: r.n.akram@rhul.ac.uk

AT	Manfred Aigner	ES	Pablo Garcia Bringas	NL	Jaap-Henk Hoepman
AT	Kurt Dietrich	ES	Pedro Peris-Lopez	NL	Gerhard de Koning Gans
AT	Michael Hutter	ES	Igor Ruiz-Agundez	NL	Erik Poll
BE	Gildas Avoine	DK	Mohamed A. Abdelraheem	NO	Vladimir A. Oleshchuk
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DE	Ioannis Krontiris	GR	Ioannis Askoxylakis	TR	Ali Ozhan Gurel
DE	Kai Rannenberg	HK	Gerhard Hancke	TR	Orhun Kara
DE	Delphine Reinhardt	KR	Deok Gyu Lee	TR	Süleyman Kardas
DE	Ahmad-Reza Sadeghi	LU	Johann Großschädl	TR	Mehmet Sabir Kiraz
DE	Ulrich Tamm	LU	Sjouke Mauw	TR	Serhat Sagdicoglu
DE	Stefan Georg Weber	NL	Lejla Batina	TR	Umut Uludag

WG 11.3 Data and Application Security and Privacy

est. 1987, revised 2001, 2011
URL: http://spdp.di.unimi.it/~ifip113/

Chair
Prof. Sabrina DE CAPITANI DI VIMERCATI
Università degli Studi di Milano
Dipartimento di Informatica
via Bramante, 65
IT-26013 CREMA, Italy
Tel. +39 0 373 898 057
Fax +39 0 373 898 010
e-mail:sabrina.decapitani@unimi.it

Vice-Chair
Dr. Sara FORESTI
Università degli Studi di Milano
Dipartimento di Informatica
via Bramante, 65
IT-26013 CREMA
Italy
Tel. +39 0 373 898 059
Fax +39 0 373 898 010
e-mail: sara.foresti@unimi.it

Secretary
Dr. Lingyu WANG
Concordia University
CIISE, ENCS
1455 de Maisonneuve Blvd. West
S-EV 007.637
MONTREAL, QC, H3G 1M8
Canada
Tel. +1 514 848 2424 5662
Fax +1 514 848 3171
e-mail: wang@ciise.concordia.ca

AT	David Derler
AT	Edgar Weippl
AU	Aarthi Nagarajan
BE	Thavy Mony Annanda Rath
CA	Ken Barker
CA	Mourad Debbabi
CA	Danish Mehmood
CA	Rei Safavi-Naini
CN	Xiaolin Qin
DE	Mohamed Abo El-Fotouh
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DE	Prachi Kumari
DE	Jan-Hendrik Lochner
DE	Guenther Pernul
DE	Torsten Priebe
DE	Andreas Schaad
DE	Adrian Spalka
DE	Lena Wiese
DE	Jan Zibuschka
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FR	Nora Cuppens-Boulahia
FR	Frederic Cuppens
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US	Ram Krishnan
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US	Indrakshi Ray
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US	Jaideep Vaidya
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US	Duminda Wijesekera
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US	Danfeng Yao
US	Meng Yu
US	Wanyu Zang
US	Nicola Zannone
US	Xinwen Zhang
US	Zutao Zhu

WG 11.4 Network & Distributed Systems Security

est. 1985, revised 1992, 1997, 2003, 2016
URL: http://www.ifip.tu-graz.ac.at/TC11/WG/index.htm

Chair	**Vice-Chair**	**Secretary**
Prof. Dogan KESDOGAN	Dr. Jan CAMENISCH	Dr. Vinh PHAM
Department of Business	IBM Research	Department of Business
Information Systems 4	Zurich Research Laboratory	Information Systems 4
University of Regensburg	Säumerstrasse 4	University of Regensburg
DE-93040 REGENSBURG	CH-8803 RUESCHLIKON	DE-93040 REGENSBURG
Germany	Switzerland	Germany
Tel. +49 941 943 5901	Tel. +41 44 724 8279	Tel. +49 941 943 5903
Fax +49 941 943 5902	Fax +41 44 724 8953	Fax +49 941 943 5902
e-mail: kesdogan@ur.de	e-mail: jca@zurich.ibm.com	e-mail: vinh.pham@ur.de

DE	Kai Rannenberg	GB	Siraj Ahmed Shaikh	US	Matthew Bishop

WG 11.5 IT Assurance and Audit
est. 2013

Chair	**Vice-Chair**
Dr. Abbas SHAHIM	Prof. Wim VAN GREMBERGEN
VU University Amsterdam	Universiteit Antwerpen
Faculteit der Economische	Department Beleidsinformatica
Wetenschappen en	Stadscampus
Bedrijfskunde, PGO IT Audit	S.B.329
De Boelelaan 1105	Prinsstraat 13
NL-1081 HV AMSTERDAM	BE- 2000 ANTWERPEN
The Netherlands	Belgium
Tel. +31 20 59 86055	Tel. +32 3 265 4159
e-mail:	e-mail: wim.vangrembergen
abbas.shahim@yahoo.com	@uantwerpen.be

AT	Ingrid Schaumueller-Bichl	IN	Pavan Duggal	NL	Eddy Vaassen
CA	Jagdish Pathak	JP	Ryoichi Sasaki	NL	Hans Verkruijsse
DE	Hartmut Pohl	LU	Peter Y A Ryan	NZ	Lech Janczewski
DK	Christian Probst	NL	Ronald Paans		

WG 11.6 Identity Management
est. 2006

Chair	**Vice-Chair**	**Secretary**
Prof. Simone FISCHER-HUEBNER	Dr. Lothar FRITSCH	TBD
Karlstad University	Norsk Regnesentral	
Dept. of Computer Science	Norwegian Computing Center	
Universitetsgatan 2	P.O. Box 114 Blindern	
SE-651 88 KARLSTAD	NO-0314 OSLO	
Sweden	Norway	
Tel. +46 54 700 1723	Tel. + 47 22 85 26 03	
Fax +46 54 700 1828	Fax + 47 22 69 76 60	
e-mail:	e-mail: lothar.fritsch@kau.se	
simone.fischer-huebner@kau.se		

AT	Herbert Leitold	GB	Thomas Gross	NL	Bart Jacobs
CL	Alejandro Hevia	GB	Chris Mitchell	NL	Ronald Leenes
DE	Marit Hansen	GB	Raj Muttukrishnan	NL	Elisabeth de Leeuw-Leceur
DE	Kai Rannenberg	GR	Stephanos Gritzalis	NZ	Lech Janczewski
DK	Niels Christian Juul	IN	Rama Subramaniam	PT	Pedro Veiga
ES	Aljosa Passic	IT	Alessandro Armando	SE	Hans Hedbom

WG 11.7/9.6 - Information Technology: Misuse and the Law

WG 11.8 Information Security Education

est. 1991
URL: http://www.ifip.tu-graz.ac.at/TC11/WG/index.htm

Chair
Dr. Lynn FUTCHER
Nelson Mandela Metropolitan University
School of Inf. Technology
PO Box 77000
PORT ELIZABETH 6031
South Africa
Tel. +27 41 504 9128
Fax +27 41 504 3313
e-mail:
lynn.futcher@nmmu.ac.za

Vice-Chair
Prof. Natalia MILOSLAVSKAYA
The National Research Nuclear University MEPhI
Cybernetics and Information Security Faculty
44 Department MEPhI
31 Kashirskoye shosse
MOSCOW, 11540, RUSSIA
e-mail:
ngmiloslavskaya@mephi.ru

Dr. Erik L. MOORE
Regis University
Information Techn.Services
3333 Regis Boulevard
DENVER, CO 80221-1099
USA
e-mail: emoore@regis.edu

Secretary
Prof. Matthew BISHOP
University of California, Davis
Department of Computer Science
One Shields Ave.
DAVIS, CA 95616-8562
USA
Tel. + 1 530 752 8060
Fax + 1 530 752 4767
e-mail: bishop@ucdavis.edu

AT	Reinhard Posch	MY	Ahmed Patel	US	Dai Jun
AT	Ingrid Schaumüller-Bichl	NO	Vasilis Katos	US	Suresh Kalathur
AT	Edgar Weippl	NO	Audun Josang	US	Siddharth Kaza
AU	Colin Armstrong	NO	Stig Mjolsnes	US	Yair Levy
AU	Helen Armstrong	NO	Marte Ødegaard	US	Daniel Likarish
AU	Bill Caelli	NO	Erlend Oftedal	US	Rick Linger
AU	Jill Slay	NO	Ruxandra F. Olimid	US	Herb Mattord
BR	Ricardo Dahab	NO	Stephen Wolthusen	US	Kara Nance
BR	Roberto Gallo	NZ	Lech Janczevski	US	Ida Ngambeki
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DE	Gamze Canova	RU	Alexander Tolstoy	US	Corey Schou
DE	Gunther Pernul	RU	Sergey Zapechnikov	US	Chien-Chung Shen
DE	Kai Rannenberg	SE	Hans Hedbom	US	Tye Stallard
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GB	Jason Nurse	US	Ha Duong	ZA	Jacques Ophoff
GB	Ismini Vasileiou	US	Joseph Ekstrom	ZA	Rayne Reid
GR	Dimitris Gritzalis	US	Steven Fulton	ZA	Tjaart Steyn
GR	Christos Kalloniatis	US	David Gibson	ZA	Kerry-Lynn Thomson
GR	Sokratis Katsikas	US	Luanne Goldrich	ZA	Johan van Niekerk
GR	Costas Lambrinoudakis	US	Seymour Goodman	ZA	Roussouw von Solms
GR	Marianthi Theocharidou	US	Elizabeth Hawthorne	ZA	Odwa Yekela
KR	Tae-Sung Kim	US	Brian Hay		

WG 11.9 Digital Forensics

est. 2004
URL: www.ifip119.org

Chair
Dr. Gilbert PETERSON
Air Force Institute of Technology
Dept of Electrical and Computer Engineering
2950 Hobson Way
WPAFB, OH 45433-7765
USA
Tel. +1 937 255 3636 4281
e-mail: gilbert.peterson@afit.edu

Vice-Chair
Dr. Kam-Pui CHOW
University of Hong Kong
Department of Computer Science, Rm 301
Chow Yei Ching Bldg.
Pokfulam Road
HK-HONG KONG
Tel. +852 2859 2191
Fax +852 2559 8447
e-mail: chow@cs.hku.hk

Secretary
Dr. Sujeet SHENOI
University of Tulsa
Computer Science Dept.
Keplinger Hall
600 S. College Ave.
TULSA, OK 74104-3189
USA
Tel. +1 918 631 3269
Fax +1 918 631 3077
e-mail: sujeet@utulsa.edu

AU	Jill Slay	US	Yong Guan	US	Marcus Rogers
FR	Thomas Duval	US	Warren Harrison	US	Vassil Roussev
FR	Bernard Jouga	US	Mark Hartong	US	Kulesh Shanmugasundaram
GB	Jonathan Clark	US	Patrick Juola	US	Peter Stephenson
IN	Indrajit Ray	US	Michael Losavio	US	Christopher Swenson
JP	Ryoichi Sasaki	US	Gavin Manes	US	Anthony Whitledge
NO	Svein Willassen	US	Daniel Massey	US	Duminda Wijesekera
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US	Rajni Goel	US	H. Richard Reeve	ZA	Hein Venter
US	David Greer	US	Golden Richard III	ZA	Cobus Venter

WG 11.10 Critical Infrastructure Protection

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URL: www.ifip1110.org

Chair
Dr. Jonathan BUTTS
QED Secure Solutions
453 Crestview Point Dr.
LEWISVILLE, TX 75067-8349
USA
Tel. + 1 210 473 3868
e-mail: j.butts@qedsecure.com

Vice-Chair
Dr. Tyler MOORE
University of Tulsa
Tandy School of Computer Science
800 South Tucker Drive
TULSA, OK 74104-9700
USA
Tel. +1 918 631 3232
e-mail: tyler-moore@utulsa.edu

Secretary
Dr. Sujeet SHENOI
University of Tulsa
Computer Science Dept.
Keplinger Hall
600 S. College Ave.
TULSA, OK 74104-3189
USA
Tel. +1 918 631 3269
Fax +1 918 631 3077
e-mail: sujeet@utulsa.edu

AU	Andrew Clark	SG	Chung-Pheng Tan	US	Nemo Lionikis
AU	Jill Slay	SG	Kuan Seah Chua	US	Debin Liu
AU	Craig Valli	TW	Chris Kuo	US	Tyson Macaulay
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DE	Felix Flentge	US	Christine Coldwell	US	Robert Mullen
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ES	Cristina Alcaraz Tello	US	Paul Craven	US	David Nicol
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JP	Toshinobu Yasuhira	US	Janet Hopkinson	US	Paul Thompson
KR	Insub Shin	US	Peter Huitsing	US	William Tolone
NL	Marieke Klaver	US	Jeffrey Hunker	US	Ron Trellue
NL	Eric Luiijf	US	Eric Johnson	US	Zach Tudor
NO	Stig Johnsen	US	Himanshu Khurana	US	Sid Valentine
NO	Nils Svendsen	US	Michael Kolbe	US	Jim Watters
NO	Steven Wolthusen	US	Jason Kopylec	US	Duminda Wijesekera
NZ	Malcolm Shore	US	Michael Lavine	US	Dorsey Wilkin
RO	Liviu Muresan	US	Shari Lawrence-Pfleeger	US	Rae Zimmerman
SE	Svante Barck-Holst	US	Seok-Won Lee	ZA	Les Labuschagne
SE	Linda Englund	US	Ulf Lindqvist	ZA	Martin Olivier
SE	Malin Fylkner				

WG 11.11 Trust Management

est. 2006

Chair
Dr. Stephen MARSH
University of Ontario
Institute of Technology
Faculty of Business and
Information Technology
2000 Simcoe Street North
OSHAWA, ON L1H 7K4
Canada
Tel. +1 905 721 8668 5391
Fax +1 905 721 3178
e-mail: stephen.marsh@uoit.ca

Vice-Chairs
Prof. Christian D. JENSEN
Technical University of
Denmark
Informatics & Math. Modelling
Richard Petersens Plads
DK-2800 LYNGBY
Denmark
Tel. +45 4525 3724
Fax +45 4593 0074
e-mail:
christian.jensen@imm.dtu.dk

Dr. Nurit GAL-OZ
Sapir College
Computer Science Department
D. N. HOF ASHKELON
7916500
Israel
Tel. +972 77 980 2587
Fax +972 8 611 0783
e-mail: galoz@cs.bgu.ac.il

Secretary
Dr. Anirban BASU
KDDI R&D Laboratories, Inc.
2-1-15 Ohara
Fujimino-shi
SAITAMA 356-8502
Japan
e-mail: anirban.basu@ifiptm.org

ES	Javier Lopez	IT	Fabio Martinelli	NO	Ketil Stolen
FR	Valerie Issarny	IT	Fabio Massacci	US	Ninghui Li
GB	Theo Dimitrakos	JP	Yuko Murayama	US	John Mitchell
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IE	Paddy Nixon	NO	Audun Josang	US	Marianne Winslett

WG 11.12 Human Aspects of Information Security and Assurance
est. 2010
URL: http://www.ifip11-12.org

Chair
Prof. Nathan CLARKE
University of Plymouth
Network Research Group
Room A304, Portland Square
PLYMOUTH PL4 8AA
United Kingdom
Tel. +44 1752 586218
Fax +44 1752 586229
e-mail:
n.clarke@plymouth.ac.uk

Vice-Chair
Dr. Kerry-Lynn THOMSON
Nelson Mandela Metropolitan
University
School of ICT
PO Box 77000
PORT ELIZABETH 6031
South Africa
Tel. +27 41 504 3408
Fax +27 41 504 3602
e-mail: kerry-
lynn.thomson@nmmu.ac.za

Secretary
Mr. Malcolm PATTINSON
The University of Adelaide
Business School
10 Pulteney Street
ADELAIDE SA 5005
Australia
Tel. +61 8 83134649
e-mail: malcolm.pattinson
@adelaide.edu.au

AT	Stefan Bauer
AT	Ulrike Hugl
AU	Helen Armstrong
AU	Christopher Bolan
AU	Paul Haskell-Dowland
AU	Kim-Kwang Raymond Choo
AU	William Hutchinson
CA	Konstantin Beznosov
DE	Steffen Bartsch
DE	Luigi Lo Iacono
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ES	Javier Lopez
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ID	Chrystamtomo
IT	Victor Pomponiu
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US	Mary Ellen Zurko
ZA	Evangelos Frangopoulos
ZA	Elmarie Kritzinger
ZA	Marianne Loock
ZA	Elme Smith
ZA	Johan van Niekerk
ZA	Roussouw von Solms

WG 11.13 / 8.11 Information Systems Security Research

WG 11.14 Secure Engineering
est. 2013

Chair
Dr. Fabio MARTINELLI
National Research Area C.N.R.
Istituto di Informatica e
Telematica – IIT
Information Security Group
Pisa Research Area
Via. G. Moruzzi 1
IT-56124 PISA
Italy
Tel. +39 050 315 3425
Fax +39 050 315 2593
e-mail: fabio.martinelli@iit.cnr.it

Vice-Chairs
Prof. Wouter JOOSEN
KU Leuven
Dept. Computer Science
Celestijnenlaan 200A
BE-3001 HEVERLEE
Belgium
Tel. +32 16 327640
Fax +32 16 327996
e-mail:
wouter.joosen@cs.kuleuven.be

Secretary
Prof. Javier LOPEZ
University of Malaga
Computer Science Department
Campus de Teatinos s/n
ES-29071 MALAGA
Spain
Tel. +34 952 131327
Fax +34 952 131397
e-mail: jlm@lcc.uma.es

Prof. Fabio MASSACCI
University of Trento
Dipartimento di Scienze ed
Ingegneria dell'Informazione
Telecomunicazioni
Via Sommarive 14
IT-38123 TRENTO
Italy
Tel. +39 46 188 2086
Fax +39 46 188 2093
e-mail: fabio.massacci@unitn.it

AE	Zakaria Maamar	FR	Mohammed Achemlal	LU	Yves Le Traon
AU	Ron van der Meyden	FR	Benoit Baudry	LU	Peter Ryan
BE	Lieven Desmet	FR	Valerie Issarny	NL	Sandro Etalle
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ES	Aljosa Pasic	JP	Yuko Murayama		

TC 12 - Artificial Intelligence

est. 1989, revised 1991, 2004
URL: http://www.ifiptc12.org/

Chair
Prof. Dr. Ulrich FURBACH, DE
Universität Koblenz-Landau
Universitätsstraße 1
DE-56070 KOBLENZ
Germany
Tel. +49 261 287 2728
e-mail: uli@uni-koblenz.de

Vice-Chairs
Prof. Eunika MERCIER-LAURENT, FR
Knowledge & Innovation
Management and IAE Lyon University
620 Chemin des Grives
FR-34160 SAINT DREZERY
France
Tel. +33 467 866 581
Fax +33 955 154 824
e-mail: eunika@innovation3d.fr

Dr. Nenad STEFANOVIC, RS
University of Kragujevac
Faculty of Science
Department of Mathematics and Informatics
Radoja Domanovica 12
RS-34000 KRAGUJAVEC
Serbia
Tel. +381 64 2727221
Fax +381 34 335040
e-mail: nenads@kg.ac.rs

Secretary
Prof. Elizabeth M. EHLERS, ZA
University of Johannesburg
Academy of Computer Science and Software Engineering
PO Box 524
Auckland Park
ZA-2006 JOHANNESBURG
South Africa
Tel. +27 11 5592841
Fax +27 11 5592138
e-mail: emehlers@uj.ac.za

AR	Analia Amandi	FI	Timo Honkela	NO	Agnar Aamodt
AU	Tharam Dillon	GB	Max Bramer	NZ	Nikola Kasabov**
AU	Omar Hussain	GR	Ilias Maglogiannis	PL	Roman Slowinski
AT	Werner Horn	GR	Constantine D. Spyropoulos	PT	Paulo Novais
BE	Dirk Van den Poel	HR	Nikola Bogunović	RS	Vladan Devedzic
BG	Vassil Sgurev	HU	Ivan Futo	SE	Amy Loutfi
CLEI	Enrique González Guerrero**	IN	P V S Rao	SI	Matjaz Gams
CN	Zhongzhi Shi	IT	Giovanni Adorni	SK	Pavol Navrat
CZ	Olga Stepankova	JP	Satoshi Kurihara	US	Daniel O'Leary
DK	Brian Mayoh	LT	Gintautas Dzemyda	US	Andrea Omicini (ACM)
ES	Ramon López de Mántaras	NL	Joost Kok		

ex-officio members: WG Chairs
**) corresponding member

WG 12.1 Knowledge Representation and Reasoning

est. 2004 Aims and Scopes

Chair
Dr. Matthias THIMM
Universität Koblenz
Institute for Web Science and Technologies
Universitätsstraße 1,
Room B112
DE-56070 KOBLENZ
Germany
Tel. +49 261 287 2715
e-mail: thimm@uni-koblenz.de

FI	Timo Honkela

WG 12.2 Machine Learning and Data Mining

est. 1993
URL: http://www.intsci.ac.cn/en/ifip/index.html

Chair
Prof. Xin YAO
The University of Birmingham
School of Computer Science
Natural Computation Group
Edgbaston, BIRMINGHAM,
B15 2TT, United Kingdom
Tel.+44 121 414 3747
Fax +44 121 414 2799
e-mail:
x.yao@cs.bham.ac.uk

Vice-Chair
Prof. Agnar AAMODT
Norwegian Univ. of Science
and Technology (NTNU)
Dept. of Computer and
Information Science
Sem Sælands vei 9
(IT Building West)
NO-7491 TRONDHEIM
Norway
Tel. +47 7359 1838
Fax +47 7359 4466
e-mail:
agnar.aamodt@idi.ntnu.no

Secretary
Prof. Sunil VADERA
University of Salford
Newton Building
School of Computer Science
and Engineering
SALFORD M5 4WT
United Kingdom
Tel. +44 161 295 5262
e-mail: s.vadera@salford.ac.uk

AU	H. Dai	CN	Zhongzhi Shi	GB	F. Coenen
AU	M. Stumptner	CN	Z. Zhou	JP	H. Motoda
AU	C. Zhang	FI	B. Back	PL	A. Skowron
CA	Stan Matwin	FR	E. Mercier-Laurent	RU	A. Galushkin
CN	Q. He	FR	J. Zucker	US	R. Agrawal
CN	G. Wang	GB	J. Bullinaria	US	D. Leake

WG 12.3 Intelligent Agents
est. 2003

Chair
Prof. Paulo NOVAIS
Universidade do Minho
Escola de Engenharia
Departamento de Informatica/
Centro Algoritmi
Campus de Gualtar
PT-4710-057 BRAGA
Portugal
Tel. +351 253 604437/70
Fax +351 253 604471
e-mail: pjon@di.uminho.pt

Vice-Chair
Prof. Jaime SICHMAN
Universidade de São Paulo
Escola Politécnica
Depto. Eng. Computação e
Sistemas Digitais (PCS)
Av. Prof. Luciano Gualberto
158 travessa 3
BR-05508-970 SAO PAULO Brazil
Tel. +55 11 30915397
Fax +55 11 30915294
e-mail: jaime.sichman@poli.usp.br

BE	Pierre Yves Schobbens	GB	Wiebe van der Hoek	NL	Frank Dignum
BR	Rafael Bordini	GB	Michael Luck	PT	Helder Coelho
CN	Zhongzhi Shi	IT	Cristiano Castelfranchi	PT	Eugenio Oliveira
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FR	Olivier Boissier				

WG 12.4 / 2.12 Web Semantics

WG 12.5 Artificial Intelligence Applications

est. 1993, rev. 2003

Chair
Prof. Ilias MAGLOGIANNIS
University of Piraeus
Department of Digital Systems
Grigoriou Lampraki 126,PC
GR-18532 PIRAEUS
Greece
Tel. +30 210 4142517
e-mail: imaglo@unipi.gr

AU	John Debenham	FR	Anne Dourgnon-Hanoune	NL	Lora Aroyo
CN	Daoliang Li	FR	Eunika Mercier-Laurent	NO	Agnar Aamodt
CN	Eric Tsui	GB	Max Bramer	NO	Weiqin Chen
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WG 12.6 Knowledge Management

est. 1998, revised 2003, 2008
URL: http://www.ifip.org/index.php?option=com_content&task=view&id=185&itemid=511

Chair
Prof. Eunika MERCIER-LAURENT
Knowledge & Innovation Management and IAE Lyon University
620 Chemin des Grives
FR-34160 SAINT DREZERY
France
Tel. +33 467 866 581
Fax +33 955 154 824
e-mail: eunika@innovation3d.fr

Vice-Chair
Prof. Mieczyslaw Lech OWOC Wroclaw University of Economics
Department of Artificial Intelligence Systems
ul. Komandorska 118/120
PL-53-345 WROCLAW
Poland
Tel. +48 71 3680503
Fax +48 71 3672778
e-mail: mieczyslaw.owoc@ue.wroc.pl

Secretary
Dr. Gülgün KAYAKUTLU
Istanbul Technical University
Information & Knowledge Management
İşletme Fakültesi
TR- 34367 MACKA, Istanbul
Turkey
Tel. +900 212 293 1300
e-mail: kayakutlu@itu.edu.tr

AU	Peter Dalmaris	FR	Noël Conruyt	MX	Celso Juan Flores
CH	Knut Hinkelmann	FR	Anne Dourgnon-Hanoune	PL	Antoni Ligeza
CN	Xiaomi An	FR	Nada Matta	SE	Helena Lindskog
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DE	Jens Obermann	IL	Ron Dvir	US	Daniel O'Leary
FR	Danielle Boulanger	IT	Carla Simona		

WG 12.7 Social Networking Semantics and Collective Intelligence
est. 2010

Chair
Dr. Pieter DE LEENHEER
VU University Amsterdam
Dept. of Computer Science
de Boelelaan 1081a
NL-1081 HV AMSTERDAM
The Netherlands
Tel. +31 20 59 83755
e-mail:
pieterdeleenheer@acm.org

Vice-Chair
Dr. John BRESLIN
NUI Galway
ENG-3047, Engineering
GALWAY
Ireland
Tel. +353 91 492622
Fax +353 91 494511
e-mail:
john.breslin@nuigalway.ie

Secretary
Dr. Christophe DEBRUYNE
Trinity College Dublin
DUBLIN
Ireland
e-mail: debruync@scss.tcd.ie

AT	Anna Fensel	DE	Denny Vrandecic	NL	Aldo de Moor
AT	Robert Meersman	GR	George Vouros	PL	Maria Ganzha
AU	Chen Wu	IE	Alex Passant	PT	Jorge Cardoso
AU	Davor Meersman	IE	Axel Polleres	UK	Harith Alani
BE	Stijn Christiaens	IT	Francesco Danza	US	Amit Sheth
CN	Feng Ling	NL	Hans Weigand	US	Sinan Tumer

WG 12.8 - Intelligent Bioinformatics and Biomedical Systems

est. 2010

Chair
Prof. Phoebe CHEN
La Trobe University
Department of Computer Science and Computer Engineering
BUNDOORA, VIC 3168
Austalia
Tel. +61 3 9479 6768
Fax +61 3 9479 3060
e-mail:
phoebe.chen@latrobe.edu.au

Vice-Chairs
Prof. Costas ILIOPOULOS
King's College London
Department of Informatics
The Strand, Room S5.42
LONDON WC2R 2LS
United Kingdom
Tel. +44 20 7848 2809
e-mail:
c.iliopoulos@kcl.ac.uk

Prof. Shuigeng ZHOU
Fudan University
School of Computer Science
220 Handan Road
SHANGHAI 200433
China
Tel. +86 21 65654504
e-mail: sgzhou@fudan.edu.cn

Secretary
Ms. Meifania CHEN
Curtin University of Technology
Digital Ecosystems and Business Intelligence Institute
Enterprise Unit 4, De Laeter Way
Technology Park
BENTLEY, WA 6102
Australia
Tel. +61 892 669270
e-mail:
m.chen@cbs.curtin.edu.au

AU	Maja Hadzic	GB	Laurent Mouchard

WG 12.9 - Computational Intelligence

est. 2011

Chair
Dr. Vasile PALADE
Coventry University
Faculty of Engineering and Computing
Priory Street
COVENTRY CV1 5FB
United Kingdom
Tel. +44 24 77 659190
e-mail:
vasile.palade@coventry.ac.uk

Vice-Chairs
Dr. Masoud NIKRAVESH
CITRIS – Center for Information Technology Research in the Interest of Society
University of California Berkeley
356D Sutardja Dai Hall
BERKELEY, CA 94720-1764
USA
Tel. +1 510 643 4522
Fax +1 510 642 1800
e-mail:
nikraveshucb@gmail.com

Prof. Elizabeth CHANG
The University of New South Wales, UNSW Canberra
The Australian Defence Force Academy
P.O. Box 7916
CANBERRA, BC 2610
Australia
Tel. +61 2 626 88414
Fax +61 2 626 88450
e-mail: e.chang@adfa.edu.au

Secretary
Dr. Kit Yan CHAN
Curtin University
Department of Electrical and Computer Engineering
BENTLEY, WA 6102
Australia
Tel. +61 8 9266 2948
Fax *61 8 9266 2819
e-mail: kit.chan@curtin.edu.au

AT	Andreas Holzinger
AU	Tharam Dillon
AU	Steve Ling
AU	Xinghuo Yu
AU	Xingquan Zhu
BE	Bernard De Baets
CN	Jun Sun
DE	Francis Wei Fang
FI	X.-Z. Gao
GB	David Wolfe Corne
GB	Artur d'Avilla Garcez
GB	Hak-Keung Lam
GB	Rajkumar Roy
GR	Yannis Hatzilygeroudis
HK	C. K. Kwong
HK	Sam Kwong
HK	Frank H. Leung
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IN	Kalyanmoy Deb
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TR	Okyay Kaynak
US	Mo Yuen Chow
US	David Davis
US	Taghi Khoshgoftaar
US	Andrew Kusiak
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US	Bogdan M. Wilamowski

TC 13 - Human-Computer Interaction

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URL: http://ifip-tc13.org/membersofficers/

Chair
Prof. Philippe PALANQUE, FR
Université Paul Sabatier
ICS-IRIT
116, route de Narbonne
FR-31062 TOULOUSE
CEDEX 6
France
Tel. +33 561 55 69 65
Fax +33 561 55 62 58
e-mail: palanque@irit.fr

Vice Chair
Prof. Paula KOTZÉ*, ZA
CSIR Meraka Institute
Council for Scientific and
Industrial Research
Building 43 Room C339
P O Box 395
PRETORIA 0001
South Africa
Tel. +27 12 841 4791
Fax +27 12 841 4570
e-mail:
paula.kotze@meraka.org.za

Vice-Chairs
Prof. Jan GULLIKSEN, SE
KTH-Royal Institute of
Technology
Department of Human
Computer Interaction
School of Computer Science
and Communication
Lindstedtsvägen 5
SE-10044 STOCKHOLM
Sweden
Tel. +46 730 373930
Fax +46 8 790 9099
e-mail: gulliksen@kth.se

Prof. Simone D. Junqueira
BARBOSA, BR
PUC Rio
Departamento de Informática
Rua Marquês de São Vicente
225/410 RDC, Gávea
BR-22451-900 RIO DE
JANEIRO
Brazil
Tel. +55 21 3527 1500 ext.
4353
Fax +55 21 3527 1530
e-mail: simone@inf.puc-rio.br

Secretary
Dr. Marco WINCKLER, FR
Université Nice Sophia
(Polytech) I3S | SPARKS team
Site des Templiers,
Bât. ESSI, Bureau 446,
930 Route des Colles, BP 145
06903 SOPHIA ANTIPOLIS
CEDEX, France
Tel. + 33 492 96 51 58
e-mail: winckler@i3s.unice.fr

Treasurer
Dr. Virpo ROTO, FI
Aalto University
School of Arts,
Design and Architecture
P.O. Box 31000
FI-00076 AALTO
Finland
e-mail: virpi.roto@aalto.fi

AE	Ghassan Al-Qaimari
AT	Geraldine Fitzpatrick
AU	Henry Been-Lirn Duh
AU	Frank Vetere*
BG	Stoyan Denchev
BR	Raquel Oliveira Prates
CA	Lu Xiao
CH	Denis Lalanne
CL	Jaime Sanchez (CLEI)
CN	Zhengjie Liu*
CY	Fernando Loizides*
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DE	Tom Gross
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EE	David Lamas*
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GB	Jose Abdelnour Nocera
GB	Helen Petrie
GR	Nikos Avouris*
HR	Adriana Granic
HU	Cecilia Sik Lanyi
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ID	Eunice Sari*
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PT	Pedro Filipe Pereira Campos
PT	Joaquim Jorge*
RO	Dorian Gorgan*
RU	Ivan Burmistrov*
SG	Shengdong Zhao
SI	Matjaz Debevc
SK	Wanda Benešová
TN	Mona Laroussi
US	Gerrit van der Veer (ACM)
ZA	Janet Wesson

ex-officio members: WG Chairs
*) expert member

WG 13.1 Education in HCI and HCI Curriculum

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URL: http://ifip-tc13.org/working-groups/working-group-13-1/

Chair
Prof. Konrad BAUMANN
FH Joanneum
Alte Poststrasse 149
AT-8020 GRAZ
Austria
Tel. +43 316 5453 8615
Fax +43 316 5453 8601
e-mail: konrad.baumann@fh-joanneum.at

Vice Chairs
Prof. Jean VANDERDONCKT
Université catholique de Louvain (UCL)
Louvain School of Management
Place des Doyens, 1
BE-1348 LOUVAIN-LA NEUVE
Belgium
Tel. +32 10 47 85 25
Fax +32 10 47 83 24
e-mail: jean.vanderdonckt@uclovain.be

Dr. Carlo GIOVANNELLA
University of Rome Tor Vergata
Interfaces and Multimodal Interactive Systems
via Saturnia 55
IT-00183 ROME
Italy
Tel. +39 06 725 94524
Fax +39 06 202 3507
e-mail: info@mifav.uniroma2.it

Secretary
Prof. Konrad BAUMANN
FH Joanneum
Alte Poststrasse 149
AT-8020 GRAZ
Austria
Tel. +43 316 5453 8615
Fax +43 316 5453 8601
e-mail: konrad.baumann@fh-joanneum.at

AT	Keith Andrews*	ES	Julio Abascal	SE	Lars Oestreicher
AT	Johannes Feiner*	GB	Alison Varey	US	Jean Gasen
AT	Elmar Krainz*	GB	William Wong	US	Tom Hewett
AT	Johanna Pirker*	IE	Liam Bannon	US	Joseph A. Konstan
AT	Peter Purgathofer	IT	Sebastiano Bagnara	US	Marian G. Williams
AU	Mark Toleman	NL	Matthias Rauterberg	ZA	Darelle van Greunen
BE	Monique Noirhomme-Fraiture*	NL	Gerrit van der Veer	ZA	Paula Kotzé
CH	Helmut Schauer	SE	Jan Gulliksen	ZA	Janet Wesson

*) Observer

WG 13.2 Methodologies for User-Centered Systems Design

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URL: http://wwwswt.informatik.uni-rostock.de/IFIP_13_2/

Chair
Dr. Marco WINCKLER
University Paul Sabatier (Toulouse 3)
Institute of Research in Informatics of Toulouse (IRIT)
118 route de Narbonne
FR-31062 TOULOUSE Cedex 9
France
Tel. +33 561 55 63 59
Fax +33 561 55 62 58
e-mail: winckler@irit.fr

Vice-Chairs
Dr. Marta Kristin LÁRUSDÓTTIR
Reykjavik University
School of Computer Science
Kringlan 1
IS-103 REYKJAVIK
Island
Tel. +354 599 6264
Fax +354 599 6201
e-mail: marta@ru.is

Secretary
Dr. Kati KUUSINEN
University of Southern Denmark
SDU Software Engineering
Campusvej 55
DK-5230 ODENSE M
Denmark
Tel. +45 65 50 24 83
e-mail: kaku@mmmi.sdu.dk

Dr. Christian BOGDAN
KTH Royal Institute of
Technology
MID Group, SCS
Lindstedtsvägen 3,
floor 6, 1617
SE-1044 STOCKHOLM
Sweden
Tel. +46 08 790 9156
Fax +46 08 790 9099
e-mail: cristi@csc.kth.se

AT	Thomas Grill*	DK	Anders Bruun	GB	Andrew Dearden
AT	Sebastian Osswald*	DK	Morten Borup Harning	GB	Jonathan Day*
AT	Michael Pirker	DK	Annelise Mark-Pejtersen	GB	Shamal Faily*
BD	Nasim Mahmud*	ES	Xavier Ferre	GB	Susan Harker
BE	Jan Van den Bergh	ES	Francisco Montero	GB	Alistair Sutcliffe
BR	Simone Barbosa	ES	Ricardo Tesoriero	IN	Anirhuda Joshi
CA	Daniel Sinnig	FI	Paul Klunko*	IT	Carmelo Ardito
DE	Jan Borchers	FI	Ahmed Seffah	IT	Rosa Lanzilotti*
DE	Birgit Bomsdorf	FR	Regina Bernhaupt	IT	Fabio Paterno
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DE	Tom Gross	FR	Célia Martinie	SE	Jan Gulliksen
DE	Eduard Metzker	FR	Philippe Palanque	SE	Ake Walldius
DE	Regina Peldszus*	GB	Balbir Barn	US	John M. Carroll
DE	Stefan Sauer	GB	David Benyon	ZA	Janet Wesson
DE	Enes Yigitbas*				

WG 13.3 Human-Computer Interaction and Disability

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Chair
Prof. Helen PETRIE
University of York
Department of Computer
Science
Deramore Lane, Heslington
YORK YO10 5GH
United Kingdom
Tel. +44 1904 325 603
e-mail: helen.petrie@york.ac.uk

Vice-Chair
Prof. Dr. Gerhard WEBER
Technical University Dresden
Institute for Applied Computer
Science
Nöthnitzer Str.46
DE-01062 DRESDEN
Germany
Tel. +49 351 463 38467
Fax +49 351 463 38491
e-mail:
gerhard.weber@tu-dresden.de

Secretary
Dr. David SLOAN
University of Dundee
Digital Media Access Group
School of Computing
DUNDEE DD1 4HN
Scotland, United Kingdom
Tel. +44 1382 385 598
e-mail: dsloan@computing.
dundee.ac.uk

AT	Klaus Miesenberger	GB	Leslex Axelrod	GR	Jenny Darzentas
AU	Oliver Burmeister	GB	Geoff Busby	GR	John Darzentas
AU	Robert Pedlow	GB	Alistair Edwards*	GR	Constantine Stephanidis
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BR	Andre Freire	GB	Martin Maguire	NL	M.A. Neerincx
DE	Klaus Fellbaum	GB	Colette Nicolle	PT	Luis Azevedo
DE	Carlos A. Velasco	GB	Chris Power	PT	Paula Alexandra Silva
ES	Julio Abascal	GB	Jim S. Sandhu	SE	Jan Gulliksen
ES	Daniel Burgos*	GB	Andreas Savva*	SE	Lars Oestreicher
GB	Norman Alm	GB	David Swallow*	US	Gregg C. Vanderheiden

WG 13.4 / 2.7 - User Interface Engineering

WG 13.5 Human Error in Resilience, Reliability, Safety

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URL: http://www.irit.fr/recherches/ICS/events/groups/IFIP_WG13.5

Chair
Prof. Chris W. JOHNSON
University of Glasgow
Dept. of Computer Science
GLASGOW G12 8QJ
Scotland, United Kingdom
Tel. +44 141 330 6053
Fax +44 141 330 4913
e-mail: johnson@dcs.gla.ac.uk

Vice-Chairs
Dr. Michael FEARY
NASA, Ames Research Center
MOFFETT FIELD
CA 94035-1000
USA
Tel. +1 650 604 0203
e-mail: michael.s.feary@nasa.gov

Dr. Asaf DEGANI
General Motors R&D
7 HaMada St.
IE-HERZLIYA, 46733
Israel
Tel. +972 9 972 0613
e-mail: asaf.degani@gmail.com

Secretary
Prof. Philippe PALANQUE
Université Paul Sabatier
Toulouse III
ICS-IRIT
118, route de Narbonne
FR-31062 TOULOUSE
Cedex 4, France
Tel. +33 561 55 69 65
Fax +33 561 55 62 58
e-mail: palanque@irit.fr

AU	Shelly Jeffcott	ES	Amaya Atencia Yépez	SE	Marta Walker
BE	Anne-Sophie Nyssen	FR	Célia Martinie	US	Sue Bogner
CA	Jan Davies	FR	Jari Nisula	US	Ronald Boring
CN	Zhjengjie Liu	IT	Luca Chittaro	US	Guy Boy
DE	Regina Peldszus	JP	Kenji Itoh	US	Randall Mumaw
DE	Peter Ladkin	NO	Helle Oltedal	US	Amy Pritchet
ES	Eduardo Garcia	SE	Pernilla Ulfvengren		

WG 13.6 Human Work Interaction Design

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URL: http://hwid.m-iti.org

Chair
Dr. Barbara R. BARRICELLI
Università degli Studi di Milano
Department of Computer Science
Via Comelico, 39/41
IT-20135 MILANO
Italy
Tel. +39 503 14002
e-mail: barricelli@di.unimi.it

Vice Chairs
Dr. Pedro Filipe P. CAMPOS
Madeira Interactive Technologies Institute
Polo Científico e Tecnológico da Madeira, floor -2
Caminho da Penteada
PT-9020-105 FUNCHAL
Portugal
Tel. +351 291 70 5287
e-mail: pedro.campos@m-iti.org

Prof. Jose ABDELNOUR-NOCERA
University of West London
School of Computing and Technology
St. Mary's Road, Ealing
LONDON W5 5RF
United Kingdom

Secretary
Dr. Frederica CONÇALVES
Madeira Interactive Technologies Institute
Polo Científico e Tecnológico da Madeira, floor -2
Caminho da Penteada
PT-9020-105 FUNCHAL
Portugal
e-mail: frederica.goncalves@m-iti.org

Vice Chairs
Prof. Torkil CLEMMENSEN
Copenhagen Business School
Department of IT Management
Solbjerg Plads 3
DK-2000 FREDERIKSBERG
Denmark
Tel. + 45 381 52389

e-mail: tc.itm@cbs.dk

Prof. Arminda G. LOPES
Instituto Politecnico de Castelo Branco
Avenida Pedro Alvares Cabral 12
PT-6000-084 CASTELO BRANCO, Portugal
Tel. +351 272339600
e-mail: aglopes@ipcb.pt

e-mail: jose.abdelnour-nocera@uwl.ac.uk

Dr. Dinesh KATRE
Human-Centred Design & Computing Group
Centre for Dev. of Adv. Comp. (C-DAC)
7th Flr., NSG, IT Park,
S. No. 127/2/2B/2A
Sarja Hotel Lane, Aundh
PUNE 411007, India
Tel. +91 20 2550 3386
e-mail: dineshkatre@yahoo.co.in

AT	Jan Bobeth	ES	Oscar Pastor*	IN	Pradeep Yammiyavar
AT	Marc Busch	ES	Valeria Righi	IS	Ebba Þóra Hvannberg
AT	Verena Fuchsberger	FI	Heljä Franssila	IT	Stefano Valtolina
AT	Martin Murer	FI	Saila Huuskonen	JP	Tetsuro Chino
AT	Manfred Tscheligi	FI	Virpi Roto*	NL	Bernt Meerbeek
AT	Günther Schreder	FI	Pertti Vakkari	NO	Frode Guribye
AT	Karin Siebenhandl	FI	Teppo Valtonen	PT	Hildegardo Noronha
CA	Craig Anslow	GB	Paola Amaldi	PT	Evangelos Karapanos*
CA	Catherine Burns	GB	Effie Law	PT	Nuno Nunes*
DK	Morten Hertzum	GB	Shailey Minocha	RU	Vladimir Abramov*
DK	Lene Nielsen	GB	William Wong*	SE	Elina Eriksson*
DK	Rikke Orngreen	IE	Liam Bannon*	SE	Anders Jansson
DK	Rasmus Pedersen	IN	Ganesh D. Bhutkar	US	Fraser Hamilton*
DK	Annelise Mark Pejtersen	IN	Anant Bhaskar Garg	US	Pete Pavan*
DK	Thomas Visby Snitker	IN	Anirudha Joshi	ZA	Paula Kotze*
ES	Sergio España*				

*) Observers

WG 13.7 Human - Computer Interaction & Visualization HCIV

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Chair
Prof. Peter DANNENMANN
Rhein Main University of Applied Sciences
Am Brückweg 26
DE-65428 RÜSSELSHEIM
Germany
Tel. + 49 6142 898 4494
Fax +49 6142 898 4421
e-mail: peter.dannenmann@hs-rm.de

Vice-Chairs
Dr. Nahum GERSHON
The MITRE Corporation
7515 Colshire Drive
MC LEAN, VA 22102-7508
USA
e-mail: gershon@mitre.org

Dr. Gerrit VAN DER VEER
Vrije Universiteit Amsterdam
Faculty of Sciences
De Boelelaan 1081 A
NL-1081 HV AMSTERDAM
The Netherlands
Tel. +31 20 444 7764
Fax +31 20 644 1746
e-mail: gerrit@acm.org

Secretary
Prof. Achim EBERT
University of Kaiserslautern
Gottlieb-Daimler-Str.
DE-67663 KAISERSLAUTERN
Germany
Tel. +49 631 205 3502
Fax +49 631 205 3270
e-mail: ebert@cs.uni-kl.de

AT	Andreas Holzinger	DE	Gerhard Steinebach	LK	Gihan Wikramanayake
AT	Thomas Meneweger	DE	Didier Stricker	MK	Bujar Raufi
AT	Margit Pohl	DE	Janko Timmermann	NL	Laura Benvenuti
AU	Athula Ginige	DE	Carina Voelpel	NL	Geert de Haan
AU	Tamara Ginige	DE	Andreas Walden	NL	Mohammad Rajabalinejad
AU	Dhaval Vyas	DK	Annelise Mark Pejtersen	NZ	Mark Apperley
BE	Erik Duval	DK	Kasper Rodil	RS	Dragan Ivetic
BR	Simone Barbosa	ES	Mireia Ribera	RS	Veljko Petrovic
CA	Randy Goebel	ES	Marco Romano	SE	Guohua Bai
CA	Azam Khan	ES	Rosa M. Romero Gomez	SE	Sara Eriksen
CA	Jim Parker	FI	Hanna Koskinen	SE	Mattias Georgsson
CH	Horst Bunke	FR	Younis Hijazi	SE	Malin Hofflander
DE	Ragaad Al-Tarawneh	GB	Alan Bundy	SE	Yan Hu
DE	Henning Barthel	GB	Alan Dix	SE	Anders Jansson
DE	Patrick Baudisch	GB	Mike Hobbs	SE	Andreas Kerren
DE	Jens Bauer	GB	Donia Scott	SE	Arianit Kurti
DE	Sebastian Baumgärtner	GB	Robert Spence	SE	Jenny Lundberg
DE	Dirk Bayer	IL	Eliezer Kantorowitz	SE	Lina Nilsson
DE	Michael Bender	IN	Sanjay Tripathi	SE	Bengt Sandblad
DE	Karsten Berns	IR	Kaveh Bazargan	SE	Simon Tschirner
DE	Daniel Cernea	IT	Tiziana Catarci	SE	Bahtijar Vogel
DE	Andreas Dengel	IT	Pasquale Di Giovanni	US	Abdulrhman Alkhanifer
DE	Andreas Divivier	IT	Oliviero Stock	US	Kenneth Boff
DE	Benedikt Etzold	IT	Genoveffa Tortora	US	Jeffrey Bradshaw
DE	Britta Frodermann	IT	Giuliana Vitiello	US	John Carroll
DE	Hans Hagen	IT	Giuseppe Santucci	US	Mary Czerwinski
DE	Steffen Hess	IT	Monica Sebillo	US	Mexhid Ferati
DE	Shah Rukh Humayoun	JP	Kiyohiko Abe	US	Bernd Hamann
DE	Taimur Khan	JP	Naoaki Itakura	US	Chuck Hansen
DE	Kolja Kioschwitz	JP	Kenji Kaijiri	US	Christopher Johnson
DE	Edna Kropp	JP	Shohei Kamimori	US	Ken Joy
DE	Peter Liggesmeyer	JP	Shogo Matsuno	US	Stephanie Ludi
DE	Claudia Mueller	JP	Shinpei Ogata	US	Joerg Meyer
DE	Paul Mueller	JP	Shoichi Ohi	US	Robert Moorhead
DE	Claudia Nass	JP	Minoru Ohyama	US	John Stasko
DE	Sebastian Petsch	JP	Tomomi Takashina	US	Ed Swan
DE	Michael Raschke	LK	Jeevani Goonetillake	US	Desney Tan
DE	Theo Schmitt	LK	Lashanti de Silva	ZA	Ibrahim Mbaya

WG 13.8 Interaction Design and International Development
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Chair
Prof. Jose ABDELNOUR-NOCERA
University of West London
School of Computing and Technology
St. Mary's Road, Ealing
LONDON W5 5RF
United Kingdom
e-mail: jose.abdelnour-nocera@uwl.ac.uk

Vice Chairs
Prof. Andy DEARDEN
Sheffield Hallam University
Communication and Computing Research Centre
Furnival Building, Room 9409
153 Arundel Street
SHEFFIELD S1 2NU
United Kingdom
Tel. +44 114 225 6878
Fax +44 114 225 3161
e-mail: a.m.dearden@shu.ac.uk

Secretary
Mr. Anirudha JOSHI
IIT Bombay
Powai
IN-MUMBAI 400076
India
Tel. +91 98203 45569
e-mail: anirudha@iitb.ac.in

Vice Chair
Prof. Christian STURM
Hamm-Lippstadt
University of Applied Sciences
Marker Allee 76
DE-59063 HAMM
Germany
Tel. +49 2381 87890
e-mail: c.sturm@arolis.com

Prof. Torkil CLEMMENSEN
Copenhagen Business School
Department of IT Management
Solbjerg Plads 3
DK-2000 FREDERIKSBERG
Denmark
Tel. + 45 381 52389
e-mail: tc.itm@cbs.dk

CN	Zhengjie Liu	MY	Alvin Yeo	ZA	Paula Kotzé
DE	Rüdiger Heimgärtner	MY	Chui Yin Wong	ZA	Edwin Blake
DK	Kasper Rodil	NA	Nic Bidwell	US	Melissa Densmore
GB	Daniel G. Cabrero	NA	Heike Winschiers-Theophilus	US	Susan Dray
GB	John Moore	NL	Vanessa Evers	US	Matthew Kam
IE	Liam Bannon	NO	Charles Ess	US	Samantha Merrit
KE	Daniel Orwa Ochieng	PT	Pedro Campos		

WG 13.9 Interaction Design and Children
est. 2013
URL: http://www.idc-sig.org/

Chair
Prof. Janet READ
University of Central Lancashire
School of Computing,
Engineering & Physical Sciences
ChiCI Group
PRESTON, PR1 2HE Lancashire
United Kingdom
Tel. +44 1772 893285
Fax +44 1772 892996
e-mail: jcread@uclan.ac.uk

Vice-Chair
Prof. Panos MARKOPOULOS
Eindhoven Univ.of Technology
Department of Industrial Design
P.O. Box 513, Den Dolech 2
NL-5600 MB EINDHOVEN
The Netherlands
Tel. +31 40 247 5247
Fax +31 40 247 5376
e-mail: p.markopoulos@tue.nl

Secretary
Mr. Matthew HORTON
University of Central Lancashire
Computing and Technology
Building, CM015
PRESTON, PR1 2HE Lancashire
United Kingdom
Tel. + 44 1772 895151
e-mail: mplhorton@uclan.ac.uk

AU	Vivien Chen	ES	Narcis Pares	NL	Tildde Bekker
CA	Alissa Antle	GB	Paul Marshall	PT	Cristina Sylla
CH	Monica Landoni	IL	Shuli Gilutz	US	Juan Pable Hourcade
DE	Heidi Schelcowe	IT	Franca Garzortto		

WG 13.10 Human-Centred Technology for Sustainability

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Chair
Prof. Masood MASOODIAN
Aalto University
School of Arts, Design and
Architecture
Department of Media
P.O. Box 16500
FI-00076 AALTO
Finland
e-mail:
masood.masoodian@aalto.fi

Vice-Chairs
Prof. Elisabeth ANDRÉ
Augsburg University
Institut für Informatik
Universitätsstr. 6a
DE-86159 AUGSBURG
Germany
Tel. +49 821 598 2341
Fax +49 821 598 2349
e-mail: andre@informatik.uni-
augsburg.de

Prof. Nuno J. NUNES
Universidade da Madeira
Dep.of Mathematics and
Engineering
Campus da Penteada
PT-9000-390 FUNCHAL
Portugal
Tel. +351 291 705150
Fax +351 291 705199
e-mail: njn@uma.pt

Secretary
Prof. Thomas RIST
Hochschule Augsburg
Fakultät für Informatik
Postfach 11 06 05
DE-86031 AUGSBURG
Germany
Tel. +49 821 5586 3249
Fax +49 821 5586 3499
e-mail:
thomas.rist@hs-augsburg.de

AT	Alexander Meschtscherjakov	DE	Steffen Wendzel	SE	Elina Eriksson
AT	Manfred Tscheligi	FI	Giulio Jacucci	SE	Jorge Luis Zapico
AU	Rachel Burrows	GB	Peter Johnson	NZ	Mark Apperley
CA	Lyn Bartram	GB	Lara Piccolo	NZ	Bill Rogers
CH	Vanessa De Luca	IT	Luciano Gamberini	ZA	Lester Cowley
DE	Jasminko Novak	MK	Ljupco Kocarev	ZA	Brenda Scholtz

TC 14 - Entertainment Computing

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URL: http://www.org.id.tue.nl/IFIP-TC14/index.html

Chair
Prof. Rainer MALAKA, DE
University of Bremen
Computer Science
P.O. Box 330440
DE-28334 BREMEN
Germany
Tel. +49 421 218 64402
e-mail: ifip.tc14.chair@gmail.com

Vice-Chairs
Prof. Letizia JACCHERI, NO
Norwegian University of
Science and Technology
Computer Science
Sem Sælands vei 7-9
NO-7491 TRONDHEIM
Norway
Tel. +47 73 59 3469
e-mail: letizia.jaccheri@ntnu.no

Secretary
Dr. Erik van der SPEK, NL
Eindhoven University of
Technology
Department Industrial Design
P.O. Box 513
NL-5600 MB EINDHOVEN
The Netherlands
Tel. +31 40 247 3605
e-mail: e.d.v.d.spek@tue.nl

AT	Helmut Hlavacs	FI	Artur Lugmayr	LK	Buddhima Subasinghe
BE	David Geerts	FR	Stephane Natkin	PL	Piotr Gawrysiak
BG	Zlatogor Minchev	GB	Edmond Prakash	PT	Nuno Correia
BR	Esteban W.G. Clua	GR	Nikitas Sgouros	SE	Annika Waern
CA	Sidney Fels	HU	Barnabas Takacs	SG	Henry Been-Lirn Duh
CH	Jean-Henry Morin	IE	Mads Haahr	SG	Ryohei Nakatsu*
CN	Zhigeng Pan	IT	Paolo Ciancarini	US	Miguel Encarnacao**
CZ	David Obdrzalek	JP	Junichi Hoshino	US	Nahum D. Gershon*
DK	Anthony L. Brooks	JP	Takehiko Kamae*	US	Don Marinelli*
ES	Pedro A. González Calero*	KR	Hyun Seung Yang	US	Magy Seif El-Nasr (ACM)
FI	Tony Manninen**				

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*) Honorary member
**) Observing member

WG 14.1 - Digital Storytelling

est. 2004, revised 2006

Chair
Prof. Junichi HOSHINO
University of Tsukuba
Graduate School for Systems
and Information Engineering
1-1-1 Tennoudai, Tsubuka
IBARAKI 305-8573
Japan
e-mail:
jhoshino@esys.tsukuba.ac.jp

CH	Nicolas Szilas	FR	Stephane Donikian	PT	Nuno Correia
DE	Ulrike Spierling	FR	Stephane Natkin	PT	Ana Paiva
ES	Federico Peinado	GB	Marac Cavazza	US	Michael Young

WG 14.2 - Entertainment Robot
est. 2004, revised 2006
Chair
Dr. David OBDRZALEK
Charles University
Faculty of Mathematics and Physics
Malostranske namesti 25
PRAHA 1
Czech Republic
Tel. +420 22191 4270
e-mail: david.obdrzalek@mff.cuni.cz

AT	Richard Unger	ES	Julio Pastor	PL	Grzegorz Granosik
CH	Jacques Bally	GB	Michael Heeney	RS	Branislav Borovac
CH	Jean-Daniel Dessimoz	IT	Giovanni Muscato	RU	Anton Yudin
CZ	Martin Locker	IT	Corrado Santoro	SK	Richard Balogh
DE	Achim Gottscheber				

WG 14.3 - Theoretical Basis of Entertainment

est. 2004, revised 2006
URL: http://www.org.id.tue.nl/IFIP-WG14.3/

Chair
Prof. Ryohei NAKATSU
National University of Singapore
Interactive & Digital Media
Institute
Blk E3A #02-04, 7
Engineering Drive 1
SINGAPORE 117574
Singapore
Tel. +65 6516 7616
Fax +65 6773 5018
e-mail: idmnr@nus.edu.sg

CA	Jason Della Rocca*	NL	Jeffrey Goldstein*	US	Jeanne B. Funk
BR	Suely Fragoso	NL	Matthias Rauterberg	US	Susan Gold
IT	Matteo Bittanti	PH	Fatima Lasay	US	Bary W. Pollack
IT	Paolo Ciancarini	US	Johanna Blakley	US	Bill Swartout
JP	Haruhiro Katayose	US	Brad Bushman	US	Peter Vorderer
JP	Noriko Nagata				

*) Observer

WG 14.4 - Entertainment Games

est. 2005, revised 2006, 2012
URL: http://www.cs.unimaas.nl/IFIP-WG14.4

Chair
Prof. Stephane NATKIN
CNAM/CEDRIC
292 rue St Martin
FR-75141 PARIS Cedex 03
France
Tel. +33 1 40 27 20 64
Fax +33 1 40 27 22 96
e-mail: stephane.natkin@cnam.fr

Vice Chair
Prof. Hiroyuki IIDA
Japan Advanced Institute of Science and Technology
School of Information Science
Dept.of Information Processing
1- 1, Asahidai, Nomi
ISHIKAWA, 923-1292
Japan
e-mail: iida@jaist.ac.jp

Secretary
Dr. Jos UITERWIJK
Universiteit Maastricht
Faculty of Humanities and Sciences, Maastricht ICT Competence Centre
P.O. Box 616
NL-6200 MD MAASTRICHT
The Netherlands
Tel. +31 43 3883490
Fax +31 43 3252392
e-mail: uiterwijk@micc.unimaas.nl

CA	Jonathan Schaeffer	KR	Jong Weon Lee	NL	Pieter Spronck
DE	André Melzer	KR	Woontack Woo	NL	Jaap Van den Herik
ES	Pedro Gonzalez-Calero	KR	Hyun S. Yang	NL	Mark Winands
GB	Graham Kendall	NL	Wijnand Ijsselsteijn	US	Brad Bushman
GB	Abdennour El Rhalibi	NL	Anton Nijholt	US	Timothy Roden
IT	Paolo Ciancarini				

WG 14.5 - Social and Ethical Issues in Entertainment Computing
est. 2005, revised 2006

Chair
Prof. Lynne BAILLIE
Heriot-Watt University
Earl Mountbatten Building
Room G. 30
EDINBURGH EH14 4AS
United Kingdom
Tel. +44 131 451 4160
e-mail: l.baillie@hw.ac.uk

Vice Chair
Dr. Roderick McCALL
Luxembourg Institute of Science and Technology
41, rue de Brill
LU-4422 BELVAUX
Luxembourg
e-mail: roderick.mccall@list.lu

AT	Raimund Schatz	GB	Linda Little	US	Fillia Makedon
CA	Claire Dormann	GB	Christopher Zielinski	US	Joy Roberts
ES	Porfirio Barroso Asenjo	HR	Suzana Stojakovic-Celustka	US	Heather Vaughn
GB	David Benyon	SG	Ryohei Nakatsu		

WG 14.6 – Interactive TeleVision (ITV)

est. 2007
URL: http://uitv.info/ifip

Chair
Dr. Lyn PEMBERTON
University of Brighton
School of Computing, Mathem.
and Information Sciences
Lewes Rd
BRIGHTON BN2 4GJ
East Sussex
United Kingdom
Tel. +44 1273 642476
e-mail: lyn.pemberton@bton.ac.uk

Vice-Chair
Dr. Konstantinos
CHORIANOPOULOS
Ionian University
Department of Informatics
7 Platia Tsirigoti
GR-49100 CORFU
Greece
Tel. +30 26 610 87701
e-mail: choko@ionio.gr

Secretary
Dr. Pablo CESAR
CWI
The National Research Institute
for Mathematics and
Computer Science; SEN 5
Kruislaan 413
NL-1090 GB AMSTERDAM
The Netherlands
Tel. +31 20 592 4332
Fax +31 20 592 4199
e-mail: p.s.cesar@cwi.nl

AT	Marianna Obrist	DK	Jens F. Jensen	GR	Georgios Lekakos
BE	David Geerts	FI	Artur Lugmayr	PT	Celia Quico
BR	Luiz F. Gomes Soares	GB	Owen Daly-Jones	TW	Shang Hsu
CN	Zhang Liping	GB	Judith Masthoff	US	Mike Darnell
DE	Tibor Kunert	GB	Mark Springett		

WG 14.7 – Art and Entertainment
est. 2007
URL: http://www.tosa.media.kyoto-u.ac.jp/ifip/

Chair
Prof. Naoko TOSA
Kyoto University
Academic Center for
Comp. and Media Studies
Yoshida-Nihon-Matsu
Sakyo-ku, Kamingyo-ku
KYOTO 606-8501
Japan
Tel. +81 75 753 9081
Fax +81 75 753 9081
e-mail: tosa@media.kyoto-u.ac.jp

Co-Chair
Dr. Jun HU
Technische Universiteit Eindhoven
Dept. of Industrial Design
Designed Intelligence
P.O. Box 513
NL-5600 MB EINDHOVEN
The Netherlands
Tel. +31 40 247 8331
e-mail: j.hu@tue.nl

Secretary
Dr. Tomoki YOSHIHISA
Kyoto University
Academic Center for
Comp. and Media Studies
Yoshida-Nihon-Matsu
Sakyo-ku, Kamingyo-ku
KYOTO 606-8501
Japan

AT	Gerfried Stocker	JP	Gert van Tonder	US	Scott Fischer
CN	Feng Wang	JP	Adrian David Cheok	US	Jeffrey Huang
DK	Anthony L. Brooks	KR	Soh Yeong Roh	US	Erkki Hutamo
FR	Christian Warocquier	SG	Jeffrey Tzu Kwan Valino Koh	US	Newton Lee
GB	Roy Ascott	US	Hisham M. Bizri	US	Brian Loyall
JP	Michihiko Mihoh	US	Rod Brooks	US	Claudio Pinhanez

WG 14.8 – Serious Games
est. 2012

Chair
Dr. Timothy MARSH
Griffith University
Queensland College of Art
Griffith Film School
Box 3370
SOUTH BRISBANE
QLD 4101
Australia
Tel. +61 7 373 56327
Fax +61 7 373 50199
e-mail: t.marsh@griffith.edu.au

Co-Chair
Prof. Rainer MALAKA
Universität Bremen
Arbeitsgruppe Digitale Medien
FB 03, MZH 5340
Bibliothekstr. 1
DE-28359 BREMEN
Germany
Tel. +49 421 218 6440
Fax +49 421 218 64409
e-mail: malaka@tzi.de

AT	Helmut Hlavacs	DE	Jannicke Baalsrud Hauge	NL	Erik van der Spek
AU	Erik Champion	DK	Anthony L. Brooks	NO	Manuel Fradinho Oliveira
BE	David Geerts	GB	Minhua Eunice Ma	US	Albert “Skip” Rizzo
CA	Sidney Fels				

WG 14.9 – Game - Accessibility
est. 2015
URL: http://cedric.cnam.fr/~dupirej/IFIP-WG14.9/index.html

Chair
Dr. Jérôme DUPIRE
CNAM/CEDRIC
292 rue St Martin
FR-75141 PARIS
Cedex 03
France
Tel. +33 158 808 761
Fax +33 140 272 296
e-mail: dupire@cnam.fr

Vice-Chairs
Prof. Lizbeth GOODMAN
University College Dublin
School of Education
Roebuck Offices
Belfield, DUBLIN 4
Ireland
Tel. +353 171 679 73
e-mail: lizbeth.goodman@ucd.ie

Mr. Thomas WESTIN
Stockholm University
Department of Computer and Systems Sciences
Nodhuset, Borgarfjordsgatan 12
SE-164 55 KISTA
Sweden
Tel. +46 8 16 20 00
e-mail: thomasw@dsv.su.se

Secretary
Dr. George CHRISTOU
European University Cyprus
School of Sciences
6, Diogenis Str., Engomi
P.O. Box: 22006
CY-1516 NICOSIA
Cyprus
Tel. +357 227 131 04
e-mail: g.christou@euc.ac.cy

AT	Helmut Hlavacs*	CA	Arlene Astell	FR	Olivier Pons*
AT	Alexander Hofmann*	DK	Anthony L. Brooks	FR	Isabelle Barbet*
AT	Klaus Misenberger	FR	Dominique Archambault		

Technical Committee and Working Group - Aims and Scopes

There are Aims shared by all or most Committees which are not subject specific. They are as follows:

1. To establish and maintain liaison with national and international organisations with allied interests and to foster cooperative action, collaborative research and information exchange.
2. To identify subjects and priorities for research, to stimulate theoretical work on fundamental issues and to foster fundamental research which will underpin future development.
3. To provide a forum for professionals with a view to promoting the study, collection, exchange and dissemination of ideas, information and research findings and thereby to promote the state of the art.
4. To seek and use the most effective ways of disseminating information about our work including the organisation of conferences, workshops and symposia and the timely production of relevant publications.
5. To have special regard for the needs of developing countries and to seek practicable ways of working with them.
6. To encourage communication and to promote interaction between users, practitioners and researchers.
7. To foster interdisciplinary work and, in particular, to collaborate with other Technical Committees and Working Groups.

TC 1 - Foundations of Computer Science - Aims and Scopes

est. 1989 as SG14 / approved in 9/96 as TC 1

AIMS

- to support the development of theoretical computer science as a fundamental science that has similar scientific goals in understanding the information processing world as physics has in understanding the energy processing world and similar goals in developing methodology for science and technology as mathematics does;
- to support the development and exploration of fundamental concepts, models, theories, systems, and other basic tools and the understanding of laws, limits, and possibilities of information processing as well as to de-velop bridges with other sciences and their applications.

SCOPES

To encourage, organise, support, and unify the development of the following areas:

- frontiers, laws, and limits of information processing;
- fundamental formal systems;
- efficiency and complexity of information processing;
- formal systems to specify, design, verify, analyse, and manipulate
- complex information processing systems;
- theoretical foundations of various other parts of computer science and its main application areas;
- scientific paradigms of informatics and their relations to other disciplines;
- information processing fundamental concepts, models and theories to support the development of other sciences. With the goal to develop foundations and to make use of them.

WG1.1 - Continous Algorithms and Complexity
est. 1992

AIMS

To provide a forum for international collaboration and for the dissemination of research and applications of continuous algorithms and complexity.

SCOPES

Many problems in natural science, engineering, social science and business have continuous models. Hence the scope of WG 1.1 is algorithms and especially computational complexity of algorithms for solving continuous models. By computational complexity is meant the intrinsic difficulty of solving such problems. Examples of the problems that are being studied include: ordinary and partial differential equations, continuous optimization, multivariate integration and approximation, matrix multiplication, and systems of polynomial equations.

Of special interest is the solution of continuous problems on parallel and distributed computer systems.

WG1.2 - Descriptional Complexity
est. 1992, revised 2017

AIMS

Descriptional complexity has historically been a multidisciplinary area of study, with contributions from automata theory, computational complexity, cryptography, information theory, probability, statistics, pattern recognition, machine learning, computational learning theory, computer vision, neural networks, formal languages and other fields.The aims of the working group are therefore:

- To promote research in all aspects of descriptional complexity through conferences, publications, and more informal means of scientific interaction such as electronic news groups;
- To promote interaction and the exchange of information across traditional discipline boundaries;
- To provide a point of contact for all researchers in all disciplines interested in descriptional complexity and its applications.

SCOPES

The scope of the working group encompasses all aspects of descriptional complexity, both theory and application. These aspects include but are not limited to:

- Algorithmic and other descriptional theories of randomness;
- The use of descriptional randomness and associated descriptional complexity measures in computational complexity, cryptography, information theory, probability, and statistics;
- The minimum description-length principle, stochastic complexity, algorithmic probability, and other descriptional complexity measures related to inductive inference and prediction;
- The use of such descriptional complexity measures in statistical inference, pattern recognition, machine learning, computational learning theory, computer vision, and neural networks;
- Generalized descriptional complexity measures and their properties, including resource-bounded complexity, structural complexity, hierarchical complexity, and the complexity of sets, languages, grammars, automata, etc.;
- Program complexity and reliability of software.

WG1.3 - Foundations of Systems Specifications
est. 1992

AIMS

- To support and promote the systematic development of the mathematical theory and the foundations of systems specifications;
- To investigate the theory of formal models for systems specifications, development, transformation and verification;

SCOPES

The theoretical aspects of the specification and development of computing systems that are based on algebraic and logic concepts and can be studied systematically within a theory of systems specifications.

WG 1.5 - Cellular Automata and Discrete Complex Systems
est. 1994, dissolved 2004, re-established 2008, revised 2009

AIMS

The Working Group 1.5, on Cellular Automata and Discrete Complex Systems, has the following attributions:

- To establish and maintain a permanent, international, multidisciplinary forum for the collaboration of researchers in the field of Cellular Automata (CA) and Discrete Complex Systems (DCS).
- To provide a platform for presenting and discussing new ideas and results.
- To support the development of theory and applications of CA and DCS (e.g. parallel computing, physics, biology, social sciences, and others) as long as fundamental aspects and their relations are concerned.
- To identify and study within an inter- and multidisciplinary context, the important fundamental aspects, concepts, notions and problems concerning CA and DCS.

SCOPES

The scope of the working group encompasses all fundamental aspects of cellular automata and discrete complex systems, including:

- Dynamics
- Algebraic aspects
- Complexity issues
- Emergent properties
- Formal language processing
- Models of parallelism and distributed systems
- Phenomenological descriptions
- Scientific modeling
- Practical applications

WG 1.6 - Rewriting
est. 1998, revised 1999

AIMS

- To promote research efforts in rewriting and its applications.
- To establish close cooperation between existing groups and to facilitate the emergence of new ones.
- To increase awareness of rewriting techniques in the computer science community at large.
- To foster development of applications of theoretical advances.

SCOPES

- Rewriting for computing and reasoning
- Theoretical studies of the rewriting relation of different orders.
- Complexity issues of rewriting.
- Compilation techniques and applications.
- Theory and applications of rewriting logic and calculus
- Application of rewriting to constraint solving, theorem proving and algebraic specifications
- The design, promotion and teaching of rewrite based techniques and applications.

WG 1.7 - Theoretical Foundations of Security Analysis and Design
est. 1999

AIMS

- To investigate the theoretical foundations of security as an independent discipline with firm grounds in logic, semantics and complexity.
- To discover and promote new areas of application of theoretical techniques in computer security.
- To provide a platform for presenting and discussing emerging ideas and trends.
- To strengthen research efforts in current and emerging applications of formal methods and related approaches to the design and analysis of secure systems and applications.
- To make formal methods amenable to the security practicioners, hence increasing awareness of formal verification techniques for security in the computer science community at large.
- To support and promote the systematic use of formal techniques in the development of security related applications.
- To encourage researchers, especially younger ones, to enter this field.
- To promote or support the organization of meetings in this and related areas.
- To provide a clearinghouse for dissemination of information and publications, also with industry.

SCOPES

The main research topics relevant for the Working Group include:

- formal definition and verification of the various aspects of security: confidentiality, integrity, authentication and availability;
- new theoretically-based techniques for the formal analysis and design of cryptographic protocols and their manifold applications (e.g., electronic commerce);
- information flow modelling and its application to the theory of confidentiality policies, composition of systems, and covert channel analysis;
- formal techniques for the analysis and verification of mobile code;
- formal analysis and design for prevention of denial of service.

WG 1.8 - Concurrency Theory
est. 2005

AIMS

- To develop theoretical foundations of concurrency, exploring frontiers of existing theoretical models like process algebra and various process calculi, so as to obtain a deeper theoretical understanding of concurrent and parallel systems.
- To promote and coordinate the exchange of information on concurrency theory, exchanging ideas, discussing open problems, and identifying future directions of research in the area.

SCOPES

The activities of this WG will encompass all aspects of concurrency theory and its applications. The themes of the WG include:

- process algebras and calculi,
- expressiveness of formalisms for concurrency,
- modal and temporal logics for concurrency and their extensions,
- resource sensitive approaches to concurrency and their developments,
- tools for verification and validation of concurrent systems,
- reactive models for real-time and hybrid systems,
- calculi and typing systems for mobile processes and global computing,
- stochastic and probabilistic models of concurrent processes,
- behavioral relations for processes,
- decidability and complexity issues in concurrency theory,
- semantic frameworks for concurrency such as structural operational semantics,
- integration of concepts from concurrency theory into specification, modeling and programming languages, and (global) concurrent systems, and
- exploration of the frontiers of concurrency theory in connections to various branches of computer science, including theories of operating systems, internet languages, Petri nets and their applications, communication protocols, security issues on the internet, global ubiquitous computing, distributed algorithms, embedded systems, software architectures and engineering, automata theory; information theory, various formal methods, control theory and robotics, bio-computing, quantum computing, and other emerging areas.

WG1.9/2.15 Verified Software
est. 2010

AIMS

- To contribute to a comprehensive theory of programming that covers the features needed to build practical and reliable programs.
- To contribute to a coherent toolset that automates the theory and scales up to the analysis of industrial-strength software.
- To collect realistic, verified programs as part of the Verified Software Initiative (VSI) Repository. It will do this using the following means:
  * By encouraging members to solve agreed theoretical problems, adapt tools to advance the state of the art, and to populate the VSI's Repository by conducting experiments using the VSI's open problem collection.
  * By having a sharply focused common sense of purpose.
  * By being committed to making progress on the VSI roadmap.
  * By producing deliverables determined by the membership.
  * By further developing the research agenda, collecting open problems, recording progress with appropriate milestones, etc.

SCOPES

Theories, tools and experiments for verified software.

WG 1.10 – String Algorithmics & Applications
est. 2015

AIMS and SCOPES

We will focus in String Algorithmics (combinatorics on words, string algorithms) and applications. We propose a unique forum for the best available research that will provide sustained inspiration within the stringological community for still better research. There is no other group that specializes in the area that the SA would cover.

TC 2 - SOFTWARE: Theory and Practice - Aims and Scopes

est. 1962, revised 1982, 1990

AIMS

To obtain a deeper understanding of programming concepts in order to improve the quality of software by studying all aspects of the software development process, both theoretical and practical.

SCOPES

The scope of the committee encompasses all aspects of the software development process including the specification, design, implementation and validation of software systems. Areas of present activity are:

- formal models of software concepts
- programming languages and techniques
- models for information storage and processing
- program support environments
- user interfaces to software systems
- software quality

WG2.1 - Algorithmic Languages and Calculi
est. 1962, revised 1963, 1990, 1992

AIMS

To explore and evaluate new ideas in the field of programming, possibly leading to the design of new languages.

SCOPES

- the study of calculation of programs from specifications;
- the design of notations for such calculations;
- the formulation of algorithm theories, using such notations;
- the investigation of software support for program derivation;
- continuing responsibility for ALGOL 60 and ALGOL 68.

WG2.2 - Formal Description of Programming-Concepts
est. 1965, revised 1991

AIMS

The aim of the Working Group is to explicate programming concepts through the development, examination and comparison of various formal models of these concepts.

SCOPES

The Working Group will investigate formalisms and models which represent different approaches to formal specification of programming concepts. The models of concern must, at least in part:

- apply to the actual computing milieu;

- have sufficient generality to describe total systems or useful subsystems;
- treat either:
  - problem specification or
  - solution specification;
- provide practical guides towards derivation of:
  - capabilities,
  - correctness,
  - equivalence,
  - implementability,
  - performance;
- assist in standards development and specification;
- have a pedagogical utility.

WG2.3 - Programming Methodology
est. 1969, revised 1991

AIMS

To increase programmers' ability to compose programs.

SCOPES

- identification of sources of difficulties encountered in present day programming;
- the interdependence between the formulation of problems and the formulation of programs, and the mapping of relations existing in the world of problems into relations among programs and their components;
- intellectual disciplines and problem-solving techniques which can aid programmers in the composition of programs;
- the problem of achieving program reliability;
- the consequences of requirements for program adaptability;
- the problem of probability of program correctness and its influence on the structure of programs and on the process of their composition;
- guidelines for partitioning large programming tasks and defining the interfaces between the parts;
- software for mechanized assistance to program composition.

WG2.4 - Software Implementation Languages
est. 1973, revised 1991, 1992

AIMS

To promote the exchange of information between researchers and users of languages for the description of software systems at all stages of development and support. The particular focus of the group is upon the pragmatic engineering aspects of the problem: measurements, evaluation, critical comparisons, and development of economically viable techniques.

SCOPES

- experience in the actual use of systems implementation languages;
- the relation of language design to the problems of system maintenance and enhancement;
- impacts of programming methodology on system implementation languages;
- compilation techniques for system implementation languages;

- software and hardware environments to facilitate the design, construction and maintenance of large software systems;
- software portability and reusability, and their relationship to machine dependence.

WG2.5 - Numerical Software
est. 1974, revised 1991, 2006

AIMS

To improve the quality of scientific computation by promoting the development and availability of sound numerical software.

SCOPES

1. **Environment.** The definition from a numerical standpoint of a set of hardware and software features for a computing system.
2. **Tools.** The development and improvement of programming languages and other tools for numerical computation.
3. **Algorithms.** The establishment of guidelines for the assessment of numerical algorithms and their implementations.
4. **Software.** The establishment of guidelines for the preparation, interoperability, verification, validation, documentation, distribution and maintenance of numerical software.
5. **Data.** The establishment of guidelines for the validation, documentation, preservation, and distribution of numerical data.
6. **Communication.** The exchange of information concerning numerical software and the determination of the needs of computer users.

WG2.6 - Database
est. 1974, revised 1985, 1991, 1997

AIMS

For the benefit of society, to promote visibility and to increase the impact of research and development in the database area, especially in the fields defined in the scope of the working group.

- To promote quality and relevance of academic and industrial research and development in the database area.
- To promote ethical behavior and appropriate recommendations or guidelines for research related activities, e.g. submission and selection of publications, organization of conferences, allocation of grants and awards, and evaluation of professional merits and curricula.
- To promote cooperation between researchers and with other established bodies and organizations pursuing the above aims.
- To contribute to assessing the scientific merits and practical relevance of proposed approaches for data and knowledge management.

SCOPES

The notion of database has evolved to include systems that accept, describe, store and enable manipulation and presentation of data, information and knowledge in a wide spectrum of forms, ranging from tuples to rules, text, images, sounds and others, with their corresponding operators, usage and management.

The group's interests cover formalisms, models, architectures, techniques and methodologies for the purpose of designing and realizing such database systems.

These currently include in particular:

- new models, languages and theories for database design and representation
- new architectures and techniques, e.g. data warehouses, data mining, multimedia and spatio-temporal databases
- impact of new communication technologies, such as Internet, broadband networks or wireless communications
- understanding, reuse and interoperation of existing data stores
- visual user interfaces and information visualization
- new methodologies for building database applications

WG2.7 - User Interface Engineering
est. 1975, revised 1987, 1991

AIMS

To investigate the nature, concepts and construction of user interfaces for software systems.

SCOPES

- increase understanding of the development of user interfaces based on knowledge of system and user behaviour.
- provide a framework for reasoning about interactive systems;
- provide an engineering model for the development of user interfaces.

WG2.8 - Functional Programming
est. 1987, revised 1991

AIMS

To study the design, implementation, and use of functional (applicative) languages.

SCOPES

- semantic theories for functional languages;
- specification and correctness for functional programs;
- data and demand driven execution models;
- programming with higher-order functions;
- functional approaches to input-output and persistent memory;
- programming systems based on functional languages;
- novel architectures for functional programming systems;
- implementation based on combinator graph reduction;
- multiple processor implementations;
- programming styles and techniques appropriate for functional languages;
- applications and experience.

WG2.9 - Software Requirements Engineering)
est. 1993

AIMS

The aim of the Working Group is to develop a better understanding of:

- the elicitation, specification, analysis and management of the requirements for large and complex software intensive systems;
- the interpretation and documentation of those requirements in such a way as to permit the developer to construct a system which will satisfy them.

SCOPES

The Scope of the WG includes all aspects of requirements engineering. Some examples of areas of special interest are:

- formal representation schemes and requirements modelling;
- descriptions of the requirements engineering process;
- tools and environments to support requirements engineering;
- requirements engineering methods;
- requirements analysis and validation;
- requirements elicitation, acquisition and formalisation;
- methods and tools for verification of implementations compliance with requirements;
- reuse and adaptation of requirements;
- domain modelling and analysis;
- requirements engineering for distributed, safety-critical, composite, real-time and embedded systems.

WG2.10 - Software Architecture
est. 2000

AIMS

The purpose of WG 2.10 is to further the practice of software architecture by integrating software architecture research and practice.

Software architecture is concerned with

- the structure and organization by which components and subsystems interact to form systems, and
- the properties of a system that can best be designed and analyzed at the system level, for example end-to-end performance and system-family compatibility.

Software architecture is important because

- it captures and preserves designers' intentions about system structure, thereby providing a defense against design decay as a system ages, and
- it is the key to achieving intellectual control over the enormous complexity of a sophisticated system.

Some of the concerns of a software architect are

- early analysis of critical whole-system properties and
- preservation of the integrity of design over time in the face of system modifications and the creation of families of related systems.

SCOPES

The aspects of software architecture within the working group's scope are:

- identifying common problems encountered by practitioners,
- investigating notations, languages, techniques, tools, and methodologies for improving the practice of software architecture; current areas for improvement are describing software architectures, supporting reuse at the architectural level, interoperability and integration, evaluating and analyzing software architectures (e.g. for fulfillment of requirements or properties, comparing design alternatives, etc.), supporting the correspondence between the architecture and the implementation, reverse-engineering the architecture of an implemented system,
- training, education, and certification of software architects.

WG2.11 – Program Generation
est. 2003

AIMS

Generative approaches have the potential to revolutionize software development as automation and components revolutionized manufacturing.

At the same time, the abundancy of current research in this area indicates that there is a host of technical problems both at the foundational and

engineering levels. As such, the aim of this Working Group of researchers and practitioners is to promote progress in this area.

SCOPES

The scope of this WG includes the design, analysis, generation, and quality control of generative programs and the programs that they generate.

Specific research themes include (but are not limited to the following areas):

- Foundations: language design, semantics, type systems, formal methods, multi-stage and multi-level languages, validation and verification.
- Design: models of generative programming, domain engineering, domain analysis and design, system family and product line engineering,
- model-driven development, separation of concerns, aspect-oriented modeling, feature-oriented modeling.
- Engineering: practices in the context of program generation, such as requirements elicitation and management, software process engineering
- and management, software maintenance, software estimation and measurement
- Techniques: meta-programming, staging, templates, in-lining, macro expansion, reflection, partial evaluation, intentional programming,
- staged configuration, stepwise refinement, software reuse, adaptive compilation, runtime code generation, compilation, integration of
- domain specific languages, testing.
- Tools: open compilers, extensible programming environments, active libraries, frame processors, program transformation systems,
- program specializers, aspect weavers, and tools for domain modeling.

- Application: IT infrastructure, finance, telecom, automotive, aerospace, space applications, scientific computing, health, life sciences, manufacturing, government, systems software and middle-ware, embedded and real-time systems, generation of non-code artifacts.

WG2.12/12.4 - Web Semantics
est. 2004, revised 2005

AIMS

The aim of the WG2.12 is to obtain a deeper understanding of the semantic web, and help in the development of its theoretical foundations and technological underpinning, as well as its impact on computing in general.

SCOPES

The scope of the working-group includes:

- Study of the formal and practical knowledge representation issues of the semantic web
- Provide input into developing standards for adding semantics to the web and their enabling technologies
- Design, evaluation and use of ontologies
- Study of the semantics of agent and web interaction
- Issues related to the development, design and deployment of web services particularly the impact of semantic aspects
- Metrics for evaluation of the quality of web semantics
- Studies of human centered aspects specifically for the semantic web
- Study of the impact of semantic web computing on organizations and society
- Interoperability of data and Web Services including aspects of Trust and Security
- Content-based information and knowledge retrieval
- Metadata and knowledge markup
- Information extraction, automatic and semi-automatic generation of meta data

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WG2.13 – Open Source Software
est. 2006

AIMS

To enable a diverse community of researchers and practitioners to rigorously investigate the technology, work practices, development processes, community dynamics within free, libre and open source software (OSS) systems, complementing appropriately other IFIP Working Groups where OSS is increasingly relevant.

SCOPES

Software engineering perspective

- OSS architecture, configuration and release management, environments
- Testing and assuring OSS quality and security
- Mining and analyzing OSS project repositories
- Lessons from OSS for conventional development
- OSS and standards

Studies of OSS deployment

- Case studies of OSS deployment, migration models, success and failure
- Role of OSS in the public sector (government, education, health etc) and 'secondary' (automotive, telco, medical devices etc) software sector
- OSS-compatible IT governance architectures
- Open sourcing – offshore sourcing of development
- OSS applications catalog (functionality, platforms, support providers, training needs)

Social science perspective

- Diversity and international participation in OSS projects
- Learning, knowledge sharing, collaboration, control or conflict in OSS projects
- Dynamics of OSS project communities – building and sustaining

External perspectives & influences

- Diffusion and adoption of OSS innovations
- Economic analysis of OSS – business and migration models
- OSS and alternative intellectual property regimes
- Stimulation of OSS development in vertical domains

WG2.14/6.12/8.10 – Service-Oriented Systems
est. 2011, revised 2012

AIMS and SCOPES

The new working group is proposed as a TC2, TC6, and TC8 initiative. Its goal is to organize and promote the exchange of information on fundamental as well as practical aspects of service-oriented systems. In doing so, the working group will consider service-oriented systems from a technological perspective, but it will also address their business aspects and economic impact. The aim also is to structure a research community that comprises both academia and industry (maybe through living labs) and become an active, permanent, and international forum on services-oriented systems. Besides the technological underpinnings, the working group will address the different facets of the discipline. It will also try to organize current initiatives and research, and propose suitable and sustainable future research directions.

WG2.15 – Verified Software
est. 2011

WG2.16 – Programming Language Design
est. 2012

AIMS

To explore and evaluate new ideas in programming language design. Our stance is that programming languages are foremost a medium for expressing the structure and intention of software, and communicating these to other programmers. As such human factors must weigh heavily in language design decisions, requiring a well-judged balance between conflicting goals that are qualitative in nature.

SCOPES

- exploring programming paradigms and major language features, both established and novel;
- co-designing programming environments with such language features;
- articulating more clearly the problems of programming that language features are designed to address;
- identifying key design decisions that balance conflicting goals such as usability, expressivity, and the ability to provide tool support
- combining experiences and perspectives from the full spectrum of language paradigms and communities;
- conversing at a conceptual level that practicing language designers find useful, not restricted to mathematical formalisms or empirical hypotheses;
- meta-discussion of techniques for evaluating language design decisions;
- promulgating the appreciation of design considerations among researchers, practitioners, students, and teachers.

TC 3 - Education - Aims and Scopes

est. 1963, revised 1992, 1995, 1998

AIMS

- To provide an international forum for educators to discuss research and practice in:
  - teaching informatics
  - educational uses of communication and information technologies (ICT)
- To establish models for informatics curricula, training programs, and teaching methodologies.
- To consider the relationship of informatics in other curriculum areas.
- To promote the ongoing education of ICT professionals and those in the workforce whose employment involves the use of information and communication technologies.
- To examine the impact of information and communication technologies on the whole educational environment:
  - teaching and learning
  - administration and management of the educational enterprise
  - local, national and regional policy-making and collaboration.

WG3.1 - Informatics and digital technologies in School Education

est. 2014

AIMS

- To provide an international viewpoint to the debate of informatics education in all levels of school pedagogies including research activities and best practice experience.
- To promote the acquisition and updating of appropriate knowledge and expertise by all who's teaching environment requires contact with computer-based systems.
- To consider the nature, content and method of delivery for school education, within informatics (computer science) and digital technologies (digital humanities, media literacy), which will enable learners to become discerning digital citizens who are able to act in a complex and digitalized world.

SCOPES

- Early childhood and school education, including related informal learning contexts.
- Informatics education and digital literacy.
- The integration of digital technologies in education.
- The professional development of teachers.
- The provision of pre-service and in-service teacher education to enable educators to use and contribute to the development of digital educational resources, including professional learning networks.

WG3.3 - Research on Education Applications of Information Technologies

re-est. 1988, revised 2004

AIMS

To provide a forum to identify issues and priorities for research and to map research policies arising from the differing cultures in IFIP Member countries.

SCOPES

- Identification of research needs and topics in the field of education
- Improvement of research approaches and methods
- Production of synthesis of research on major topics in the field
- Dissemination of research, in partnership with educational research communities.

WG3.4 Professional and Vocational Education in ICT
est. 1971, revised 1983, 1989, 1995, 2008, 2014, 2015

AIMS

- WG3.4 is focused on professional and vocational education in ICT – education leading towards careers or professional development in some form of computing, rather than on specific teaching of informatics or use of computers in different subject areas in primary and junior secondary schools.
- Our goal is to promote the acquisition and updating of appropriate ICT knowledge and expertise by all whose working environment requires contact with computer-based systems.
- To consider the nature, content and method of delivery of professional and vocational education within the ICT sector, which will enable learners to achieve their employment expectations.
- To promote the effective use of ICT as a medium for the delivery of professional and vocational education.
- To foster life-long learning in ICT-related areas.
- To examine the activities of ICT professional bodies concerning the professional development and certification of their members.

SCOPES

- The integration of ICT knowledge and practice with other vocational and professional education.
- The provision of initial and on-going IT training and education for non-ICT professionals to enable them to use and contribute to the development of ICT systems.
- The use of computer–based training methods in the delivery of professional and vocational education.
- The on-going professional development and life-long learning of ICT practitioners.
- The membership of WG3.4 comprises academics (Computer Science, Information Systems, etc.) ICT Trainers and ICT Practitioners.
- Members' interests include the use of computer-mediated education, the on-going professional education of both ICT and non-ICT professionals, the activities of national ICT professional bodies, the delivery of effective ICT vocational education to post-secondary learners and the integration of ICT into other tertiary curricula.

WG3.7 - Information Technology in Educational Management
est. 1996, revised 2008, 2014

AIMS

- To promote effective and efficient use of Information and Communication Technologies (ICT) within the management and policies, development of and planning for educational institutions;
- To promote the use of ICT, including current and emerging technologies to support school and institutional improvement and accountability;
- To promote the use and advancement of decision support systems and knowledge management within educational management;
- To investigate the potentials of mobile technologies to support managerial and administrative work for educational institutions:

- To investigate human, social, and ethical, aspects of ITEM systems and to provide recommendations for their adequate integration in educational settings;
- To investigate aspects of security and privacy of ITEM systems and to provide recommendations for their adequate integration in educational settings;
- To develop and improve qualitative and quantitative empirical methods to understand the role of digital literacy and ICT in the management of teacher and tutor education in educational organizations;
- To encourage international exchanges of information and co-operation on state of the art research, development and implementation of ITEM systems;
- To propose themes for international, collaborative research and development in ITEM and to seek funding for such research and development from national and international bodies;
- To provide advice and support to countries, educational systems and institutions in the developmental stages of their ITEM systems.

SCOPES

- The whole range of educational institutions concerned with education, from kindergarten to higher education, adult education, professional development and training settings;
- The educational management of ICT used within lifelong, formal and informal settings;
- Local education authorities, school districts and those concerned with developing and integrating educational policies, including policy makers, advisers, parents, administrators, teachers other and education providers, and learners;
- Local, regional, national, international research and development institutions;
- Academic, government, non-profit and commercial organizations.

TC 5 - Information Technology Applications - Aims and Scopes

est. 1970, rev. 2004

AIMS

To promote research and the development of fundamental concepts, models, and theories to support applications of Information Technology.

- Research: To identify and study advanced issues related to the application of techniques and information technologies that automate, integrate, and optimize the processes of innovation, design, production and management, including environmental issues.
- Communication: To provide an international forum for government, academia, research and industry for the dissemination, publication and peer review of information, research, education and practices.
- Collaboration: To foster interdisciplinary work and to collaborate with other Technical Committees, Working Groups and global professional organizations with allied interests.

SCOPES

This Technical Committee provides a focus for multi-disciplinary research into the application of information technologies and practices to facilitate information management - that is, to make it easier for people to have up-to-date knowledge, to be flexible, and to adapt. Some non-exclusive examples are:

- Product Lifecycle Management
- Digital Engineering / Digital Modeling and Simulation / Digital Manufacturing
- Computer Aided Product Realization
- Integrated Manufacturing / Production Management including Data Management for Production, Process Planning and Tools
- Virtual Product Creation, Visualization and Digital Verification of Product and Process
- Environmental Information and Decision Support Systems for Environmental Monitoring, Management, Research and Policy, including Risk and Crisis Management
- Virtual collaboration supporting the interaction between product, production, supply chain management, recycling and end of life disposal

  Enterprise integration to facilitate product realization.

WG5.1 – Global Product Development for the whole life-cycle
est. 2006, revised 2009

AIMS

The aim of the WG is to understand the impact of the whole product life-cycle on product development. One of the major issues is to analyze and take into account the interaction of products with the environment which has a strategic importance for the sustainability of future economic development. The reason is that a product's life-cycle costs (the total costs and impacts of ownership), which play a key role in the move toward product-service systems (PSS), become more and more important in the new economic environment. The objectives are to propose new approaches for product development taking account of the importance of life-cycle issues, and to develop IT systems supporting product information in a sustainable way through the product life-cycle. These approaches would include the consideration of "Green Technology," so important for our world's future.

SCOPES

The scope of the WG concerns all aspects of Product Development for the whole life-cycle, including rapid product development and concept validation, CAD tools for early design, collaborative product development, capture and reuse of design information, feedback from the supply chain, usage and product recycle management, etc. More specifically, the following topics are included in the scope of the WG:

- Global Product Development (global products, global teams, global processes).
- Product Life-cycle Management (PLM) (product life-cycle phases, PLM systems architecture, distributed PLM systems).
- Product Life-cycle Engineering concepts and methods (design for the life cycle, life-cycle analysis, through-life aspects – feedback from users and service, knowledge lifecycle management and long-term knowledge sustainment, product-service systems).
- New organizational issues within Product Life-cycle Engineering (collaboration strategies, business strategies and benefits, infrastructure and environment, support tools, collaboration environments and platforms, virtual and simulation environments, infrastructure and implementation processes, interoperability and security issues).
- Generic issues (value, risk and cost management, emerging standards and best practices, metrics and benchmarking, performance evaluation, educational and training approaches).

WG5.4 - Computer-Aided Innovation
est. 2005, revised 2008

AIMS

1. To contribute to identify the underlying scientific foundation of Computer Aided Innovation and also to evaluate their effectiveness and efficiency.
2. To identify the state of the art and trends of Computer Aided Innovation Software and its tools and methods by discussing organizational, technological and cognitive aspects of the application of CAI methods and tools.
3. To promote the development of Computer Aided Innovation Software focusing on end-to-end product creation process with methods and tools to ensure the feasibility and success of innovations.
4. To address the main motivations of the industrial sector, regarding the engineering innovation activity with computer tools and methods.
5. To address the main motivations of the academic community regarding theoretical foundations of computer aided innovation.

SCOPES

- The Working Group will promote regular working conferences, seminars and workshops on Computer Aided Innovation calling for contributions for clarifying the role of computer aided innovation tools.
- The Working Group will focus in connecting together managers, engineers, scientists and academics interested in pushing forward the development of this new kind of tools and methods.
- The Working Group will promote that the best papers presented at its conferences, seminars and workshops will be further developed and enhanced for being published in selected journals with high impact.

WG5.5 – COVE: Cooperation Infrastructure for Virtual Enterprises and electronic Business
est. 2001

AIMS

To promote and encourage the research and technological development on many aspects of business practices, advanced tools and mechanisms, and forthcoming standards, in the areas of virtual organizations, virtual enterprises, and advanced electronic business models.
To contribute to the harmonization and knowledge dissemination of world-wide research results on virtual organizations and collaborative networks, and to foster needed collaborative developments.

SCOPES

- Reference architectures for virtual organizations including life cycle models
- Collaboration models in networked organizations
- Interoperability infrastructures in collaborative web-based environments
- Safe communications and authentication frameworks
- Distributed/federated information and knowledge management
- Assessment of the role of ontology and standards
- Planning and supervision of distributed business processes
- New value systems and assessment methods
- Collaboration coordination and management
- Supporting functions for the full life cycle of virtual organizations
- Novel paradigms and methods to support distributed collaborative processes.

WG5.7 Advances in Production Management Systems
est. 1978, revised 1986, 1989, 2000, 2008

AIMS

The aim of WG 5.7 is to promote and encourage the advancement of knowledge and practice in the field of Integrated Production Management and to maximize global dissemination of this knowledge.
This broad aim is achieved by:

- Continuous development and refinement of a research agenda.
- Developing a research culture that nurtures research that addresses industrial need whilst maintaining academic excellence.
- Disseminating R&D results and best practices globally to both academics and practitioners through the groups annual conference and the activities of its special interest groups.

SCOPES

- design and implementation of new production planning and control systems taking into account new technology and management philosophy;
- CAPM in a CIM environment including interfaces to CAD and CAM;
- project management and cost engineering;
- knowledge-engineering in CAPM;
- CAPM for Flexible Manufacturing Systems (FMS) and Flexible Assembly Systems (FAS);
- methods and concepts in CAPM;
- economic and social implications of CAPM.
- Supply Chain Management
- Operations and manufacturing strategy
- Enterprise Requirements Planning
- Simulation
- Business Process Management
- Performance Measurement and Benchmarking
- Knowledge Management

- Information systems design, modeling and management
- Implications of e-Manufacturing, e-Business, e-Commerce
- Production management in virtual and extended enterprises and production networks

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WG5.8 Enterprise Interoperability
est. 2006, revised 2008

AIMS

The purpose of this Working Group is to progress and to disseminate research and development results in the area of Enterprise Interoperability.
The goal of this group is to bring together experts of multiple disciplines that contribute to this field.
The result of this research is to enable enterprises(networked enterprise, extended enterprise, administration, virtual organizations) or organizational units, applications to interoperate seamlessly with each other either inside and enterprise or among independent enterprises.

Specifically, the goals of the WG are:

G1: to identify the scientific foundation of enterprise interoperability and promote its acceptance by the scientific community and all stakeholders;
G2: to identify and to classify the key problems of interoperability to contribute to the elaboration of roadmaps through identifying new research challenges and to facilitate the creation of research projects;
G3: to identify practical tools, methods, architectures and solutions and promote their usage;
G4: to promote the activities and to disseminate the vision of the WG through organizing conferences, workshops and other related activities;
G5: to promote education and to promote the development of the discipline interoperability;
G6: to contribute to the standardization.

SCOPES

Activities
Activity 1: to define and characterize "Enterprise Interoperability"

1.1 describe/define enterprise interoperability
1.2 define glossary of terms used in enterprise interoperability
1.3 Review periodically

Activity 2: to identify and characterize key interoperability problems and research issues, deriving them from case studies and practical solution tools and architectures

2.1 to analyze existing project results to identify key interoperability problems, Kai Mertins
2.2 to collect industrial experience scenarios (use cases) using the defined template
2.3 to collect and classify practical tools, methods, architectures and solutions to be used in the framework

Activity 3: to contribute to the scientific foundation of Enterprise Interoperability

3.1 Use a defined framework for classification of the issues
3.2 to create, maintain and use a conceptual structure of enterprise interoperability issues
3.3 to classify previous research results using the framework to identify open research problems
3.4 to use the template to structure the key interoperability problems
3.5 to identify new theoretical contribution to enterprise interoperability area by other research disciplines
3.6 to develop metrics and maturity model for enterprise interoperability

Activity 4: Provide a roadmap for Enterprise Interoperability

4.1 to identify and analyze the existing roadmaps and other strategic programs on the field of enterprise interoperability
4.2 to provide recommendations on the definition of a new roadmap based on the results of the analysis and the outcome of activities related to goal 1. The roadmap should identify barriers, opportunities and challenges related to the field of enterprise interoperability and a time plan to address topics related to these challenges
4.3 to facilitate the creation of research projects

Activity 5: to identify subjects for standardization and the standardization bodies that (could) cover these subjects

5.1 to propose certain subjects for the standardization to standardization bodies and offer support

Activity 6: Education
6.1 to identify and collect existing courses at Bachelor and Master level, Academic and professional
6.2 to define reference curricula for enterprise interoperability education
6.3 organize and sponsor summer schools for master and doctoral students and for professionals

Activity 7: Dissemination of the results of the WG

7.1 to publish and disseminate all the results of our activities in order to promote the work performed,
7.2 to organize and sponsor conferences, workshops and seminars in the field of enterprise interoperability
7.3 Dissemination of definition and terms

WG5.10 - Computer Graphics and Virtual Worlds
est. 1987, revised 1994, 2012

AIMS

To promote and encourage the advancement of the field of computer graphics, visualization, and virtual reality in science and technology.
To organize and coordinate the International Conference on Cyberworlds as the workgroup's annual conference.

SCOPES

Computer graphics and web visualization; Geometric and Solid modeling; Computer Animation; Real-time rendering;
Virtual humans and avatars; Shared virtual worlds; Virtual collaborative spaces; Telepresence; Haptic rendering and haptic interaction;
Simulation and training in virtual environments; Augmented and mixed reality; Computer games; Multi-user internet games; Art and heritage in cyberspace;
Cyber-museums; Cyberworlds and their impact on the real worlds; Information visualization; Visual analytics; Interactive techniques; Applications.

WG5.11 - Computers and Environment
est. 1991, revised 1992, 2013

AIMS

The goal of the WG is to foster the improved application of Information Technology in environmental research, monitoring, assessment, management and policy.

SCOPES

The WG tries to achieve this goal by:

- establishing a platform/forum amongst and between ICT and environmental professionals,
- performing knowledge-centric conferences worldwide to exchange information about state-of-the-art technology and prepare the ground for future,
- providing expert advice to government, multinational organisations and industry,
- providing strategy and policy makers with intuitive ICT concepts and solutions

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WG5.12 - Architectures for Enterprise Integration
est.1995, revised 2008

AIMS

- To *foster research into enterprise architecture*, and in particular enterprise architecture frameworks, enterprise engineering methodologies, enterprise modeling and generic enterprise models / ontologies;
- To identify theoretically sound and practically viable techniques for the process of change toward the integrated enterprise.
- The *multi-disciplinary* perspective of this working group requires the synthesis of relevant results from other disciplines, such as Manufacturing Engineering and Management, Industrial Engineering, Management Science, Information Systems and Systems Engineering as well as can build on results from the Software Engineering discipline.
- Active *involvement and liaison with relevant standardisation bodies*, such as

    - ISO TC184 Industrial Automation Systems and Integration SC5 WG1 on Modeling and Architecture
    - ISO/IEC JTC1/SC7 Software and Systems Engineering WG42 on Architecture

SCOPES

The scope of this working group is intended to foster information exchange and evaluation of Enterprise Architecture Frameworks and associated

Enterprise modeling tools and languages (language specifications, ontological theories, computer-aided enterprise engineering tools);

Enterprise engineering methodologies and meta-methodologies;

Generic building blocks and reference models applicable to EA, such as intra- and inter- enterprise integration, agent-based integration, information integration infrastructure, organisational models, self-similar structures, and reusable industry-specific models.

In particular the WG is mainly involved in the following types of activities:

- Scholarly evaluation of enterprise architecture frameworks that capture the life-cycle of the enterprise and its constituent entities. This aspect of the WG activity is addressed through the active liaison and co-sponsorship activities with other relevant Working Group and Technical Committees of IFIP, and other organisations conducting research and development in this area, such as IFAC, and the *continued organisation of the ICEIMT conference series*.
- Evaluation of the physical and functional architectures of information systems, industrial production – or service systems, as well as EA program architectures (such as Information-, Process-, Applications- and Technical Architecture, as well as models of the Organisation) for complete enterprise live-cycle development and management. This aspect of the WG activity is mainly addressed through liaison and participation in relevant standard bodies.

WG5.13 – Bioinformatics and its Applications
est. 2010, revised 2015

AIMS

1. To understand and identify the challenges of Bioinformatics, and its Applications for development of skills, softwares, tools databases and solving real life problems related to health, food, energy, environment and agriculture etc.
2. Develop theoretical and technological foundations for meeting the challenges of bioinformatics and its applications
3. Global integration of biological data and knowledge resources for meeting the challenges of bioinformatics
4. Create & promote Inter disciplinary teams/groups for developing new educational training programs, technology dissemination, research and development with focus on bioinformatics

SCOPES

- WG will serve as platform to create expertise and pool of scientists in various areas of bioinformatics from institutions all over the world to understand the new challenges and opportunities.
- Encourage sharing of knowledge and resources like biotech infrastructure, grid computing infrastructure, databases, softwares and other electronic resources
- To develop and enhance excellence through new educational training programs in various areas of bioinformatics
- It will serve as forum with central focus to improve understanding and R & D on various aspects of bioinformatics
- To provide a forum for dissemination of Scientific and technological knowledge in the field of bioinformatics by organizing seminars, conferences, need based faculty training programs
- To provide support for research & development and establish linkages with biotech, pharmaceutical and IT industry
- Provide a platform for interaction among scientists from various disciplines like IT, computer science, mathematics, life sciences, agricultural sciences and medical sciences for research and development of biological databases, bioinformatics softwares, integration of resources and applications in areas of health, energy , food, environment and agriculture

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WG5.14 - Advanced Information Processing for Agriculture
est. 2010 (SIG5.1), rev. 2012, 2013

AIMS

The IFIP Work Group on Advanced Information Processing for Agriculture (AIPA) encourages the scientific and technological development of IT enhanced agriculture. The specific aims are:

- to promote the use of knowledge sources and methods offered by computer and computing science in the agriculture.
- to identify subjects and priorities, stimulating fundamental research for challenging future developments of the agriculture and of the related food industrial, energetic and environmental activities.
- to disseminate the experiences of farmers, managers and researchers about the profitable technologies and policies in agriculture.
- to provide business opportunities by communicating with stakeholders, including agriculture researchers, IT professionals, consultants and government officials.
- to support exchange of knowledge, strategies and experiences between stakeholders.
- to promote and encourage interactions among agriculture scientists, meteorologists, biologists with IT professionals and other collaborators to develop implement methods, techniques, tools, as well as information and knowledge management systems enhancing agricultural technology.
- to organize a global advisory group of R&D experts for using IT methods and tools in the agriculture.
- to develop and enhance excellence through new educational training programs and technology dissemination among faculty members, professionals and students.

- to establish and strengthen the link between academia, R&D companies, development agencies, governmental organizations, etc. for knowledge based resource utilization.
- to support teaching and learning process and to develop a platform for the knowledge transfer in agriculture and the related fields between professionals, faculties, students and organizations.
- to serve as the platform for IT based dissemination of scientific and technological knowledge in the field of agricultural advisory systems.
- to organize workshops, conferences, symposia and seminars in the various areas of IT applications in agriculture.

SCOPES

The AIPA Work Group will serve as platform to organize a global advisory group of R&D experts for using IT methods and tools in the agriculture in various areas of agricultural and related sciences from institutions all over the world. This information will be provided for online use by various user communities.

- to develop and enhance excellence through new educational training programs in various areas of crop/soil modeling & other IT applications which can be delivered to agricultural institutions and individuals across the world through standalone and hosted programs.
- It will serve as a platform to provide information and other resources of professionals, faculty and students for the promotion of agriculture oriented bioinformatics activities
- to provide a forum for developing teaching and learning processes in different disciplines with the central focus to improve the IT understanding and R&D on various aspect of agricultural and related sciences.
- to provide a forum for dissemination of scientific and technological knowledge in the field of agricultural and related sciences by organizing seminars/conferences and developing databases, web sites, etc.
- Organize various, need based faculty training programs in various areas of agricultural and related sciences.
- Provide a platform for interaction among scientists from various disciplines like IT, computer science, mathematics, life sciences, agricultural sciences, and meteorological sciences for the development of agricultural solutions.
- Promote and encourage the collaborations among scientists to create inter disciplinary groups for research and development of agricultural databases, bioinformatics software and application in areas of weather, pest/disease and agriculture.
- Encourage sharing of knowledge and resources like agro-meteorological infrastructure, data communication, grid computing, open (source) software and other electronic resources.

TC 6 - Communication Systems - Aims and Scopes

est. 1971, revised 1987 and 1991

AIMS

- to promote the international exchange of information related to communication systems;
- to bridge gaps existing between users, telecommunication operators, service providers and computer and equipment manufacturers;
- to establish working contacts with international bodies concerned with data communication, such as ITU, ETSI, ISO, IEEE, IETF, ITC and ATM Forum.

SCOPES

The Scope of its work includes all aspects of communication systems, such as research on and design, manufacture and operation of products, systems, concepts and architectures related to information exchange. Some examples of areas of special interest are:

- Work fostering the development of standards;
- Formal protocol specification and verification techniques;
- National and international communication networks;
- Local and wide area communication networks;
- Integrated services digital networks;
- Network management;
- Distributed computing and information interchange between databases within a network of computers;
- Communication systems in the office and manufacturing area;
- Communications tools and communication services;
- Promotion of existing and innovative communication concepts both in developing countries and in developed countries;
- Teleservice architectures;
- Multimedia communications;
- New applications of communication systems, e.g. electronic commerce.

WG6.1 - Architecture and Protocols for Distributed Systems

est. 1973, revised 1982, 1999, 2000

AIMS

- To identify and study questions associated with the development of distributed systems and the communications and middleware protocols that support distributed applications.
- To support convergence of information processing systems, communication and networking technologies into a distributed infrastructure that is open for application to all members of the global society.
- To investigate rigorous methods applicable to the specification, verification, implementation and testing of distributed systems and applications.
- To support and promote the systematic use of these methods, and make them amenable to the practitioners, hence increasing awareness of formal methods in the distributed networking and computer networking areas at large.
- To bring together researchers, developers, and practitioners working in these areas to discuss recent innovative results and future directions by promoting and supporting the organization of meetings, workshops and conferences.
- To disseminate information and publications, foster an active participation of industry and encourage the transfer of knowledge between academia and industry.
- To encourage young researchers to enter this field.

SCOPES

This WG provides a framework for the launching and the continued organization of activities in areas that include:

- Formal Description Techniques: including rigorous models, methods and tools applicable to the design, specification, validation, verification, implementation, easy prototyping, efficiency evaluation, and testing of communicating systems and object-based distributed systems.
- Open Distributed Systems: including the design, implementation, deployment and evaluation of distributed systems platforms and architectures for networked environments and distributed applications.
- Quality of Service: including architectures, services, multimedia, operating systems and middleware in a networked or distributed environment.

WG6.2 – Network and Internetwork Architectures
est. 1994, revised 2001, 2009

AIMS

To identify and study advanced issues related to networking and internetworking design, with main emphasis on the provision of services at the network layer, on the integration of present and future technologies for physical and data link layers, and on techniques for providing network-wide internetwork services.

SCOPES

This WG provides a framework for the launching and the continued organization of activities in the area of Network and Internetwork architectures, namely:

- Network Architectures: including architectures for the Future Internet, architectures of local area networks, wide area networks, access networks, mobile IP networks, internetworking.
- Network Protocols: including transport and network layer protocols, and protocols for Internet evolution.
- Network control and Quality of Service: including traffic engineering and control, signalling, network quality of service.
- Network Components Design: including switch and router design, techniques for the transport of packetized voice and video.
- Parallel processing of network protocols: including multi-core architectures for network elements.
- Overlay Services and Systems: including Peer-to-Peer communication services and virtualisation.
- Network resilience: robust and survivable networks.
- Network measurements: traffic monitoring and analysis.
- Network Science: including models, tools and techniques to design and analyze complex networks.
- Energy-efficient network protocols and architectures: including network core nodes and cloud computing aspects
- Network protocols and transport protocols for Delay-tolerant networks and space internetworks.

WG6.3 - Performance of Communication Systems
est. 1994, revised 2001, 2010

AIMS

WG 6.3 is aimed at promoting the use of the performance evaluation techniques for studying and optimizing existing and future communication systems.

SCOPES

The WG organizes and promotes activities related to modeling, analysis, simulation and measurement of computer communication systems, with a special attention to studying and optimizing the performance of:

- Wired/wireless computer communication networks;
- Existing and future network technologies;
- LAN/MAN/WAN;
- Network Services and Applications;
- Internet architecture, protocols and services;
- Internet of things;
- Green networking;
- Content- and service-centric architectures;
- Peer-to-peer, overlay, and content distribution networks;
- Mobile and ubiquitous networks;
- Self-organizing networks;
- Mobile and on-line social networks.

WG6.6 - Management of Networks and Distributed Systems
est. 1986, revised 2001, 2006

AIMS

To facilitate cooperation between different organizations and individuals internationally in the areas of distributed operations and management, integrated network management, systems management, and service engineering. To be an effective conduit in the technology transfer between the academic and research communities, industry and the standard bodies.

SCOPES

Our planet is increasingly being networked using a variety of media, a variety of protocols and a variety of services. On the other hand, computers are becoming increasingly pervasive in a variety of forms and architectures ranging from large scale high performance systems to micro computers in any type of appliances, cars, etc. The scope of WG 6.6 is Operations and Management paradigms and technologies for these novel and complex systems and networks continuously evolving over different levels of abstraction such as element, network, service, and business level. The Operations and Management encompass different function areas such as configuration, fault, accounting, performance and security. This includes new technologies such as autonomic computing, distributed and policy based management as well as already established management protocols and information models. The scope of the working group encompass the operation and management of existing networked systems including enterprise networks and multi-provider networks as well as emerging ad-hoc and sensor networks, Grids, peer to peer networks and interplanetary networks.

WG6.7 - Smart Networks
est. 1996, revised 1998, 2001, 2007

AIMS

To identify and study current issues related to the state-of-the-art and the development of intelligent capabilities in networks. These issues include the distribution, the management, the control of every kind of algorithms inside the network. These intelligent capabilities lead to the concept of autonomic networking. Consequently to identify future trends of the network performance from industrial as well as the academic point of view.

SCOPES

Smart Networks is concentrated on research on tools and services able to be placed on top of network algorithms in order to adapt them. The concept of smart networks was developed as a step to give the network a way to adapt itself to changes within the environment and following network conditions. New emerging research

and technologies include autonomic networking, Intelligent Agents, knowledge plane, situated view, Configurable Architectures for Software and Hardware, Dependable Reconfigurable Networks, Mobility Management, QoS Management, Security Management, Flow Control, Mobility and Network Integration Issues.

WG6.8 - Mobile and Wireless Communications
est. 1996, revised 2001, 2002, 2007

AIMS

To organise and promote the exchange of information on wireless communication systems and networks, fixed and mobile, terrestrial and space, local and global. To help in the research, development, design, standardisation and applications for mobile and wireless modules, equipment and systems. To examine technical operational capabilities of the future mobile and wireless networks for voice, data, text and image communications. The results of the work will be made available to individuals as well as organisations concerned, such as manufacturers, operators, common carriers, standardisation bodies, users.

SCOPES

The scope of the Working Group includes:

- Wireless LANs.
- Wireless Sensor Networks.
- Wireless Actor Networks.
- Mobile computing.
- Cellular networks.
- Ad-hoc networks.
- Mobile and wireless personal communications.
- Short range communications and applications.
- Digital microwave systems and networks.
- Digital radio and TV broadcasting.
- Satellite networks.

All topics should be examined from the viewpoint of architecture and protocols, modulation, coding and decoding, methods of communication functions (multiple access, error control, flow control, routing, etc.), security, implementation, user aspects, legal, economic, social and human related issues.

WG6.9 - Communication Systems for Developing Countries
est. 2002

AIMS

To identify and study technical problems related to the access to, understanding of and application of network and telecommunications technology in developing countries or regions.
To encourage cross-fertilisation of concepts and techniques among developing countries, and between developing countries and developed countries.
To promote activities oriented to the diffusion of the methods and techniques for accessing computer networks in developing countries or regions.

SCOPES

The areas of study include models and methods for transfer of concepts and methods in communication systems and establishment of new applications in developing regions for existing technologies.
The requirements of the users of those regions include cost-effective technologies for global access, rural

access to services and social development in those regions through appropriate applications of communication systems.
The problems of human resources, sharing of experience and cost of technology are particularly acute, and are to be examined in detail.
Although not limited to, the following items are of particular significance in the scope of the Working Group:

- Satellite systems
- Applications for cellular technology
- Alternative network technologies
- Technologies for distance learning, e-business, tele-meeting and any other reducing the distance effect between partners
- Global access and interconnectivity technologies
- Internet services.

WG6.10 - Photonic Networking
est. 1998, revised 1999, 2001

MOTIVATION

Photonic Communication networks hold the promise of solving several problems in the current generation of networks, among them restricted transmission capacity and limited performance capability.

AIMS

To strengthen research on photonic networks, to explore the potentials of photonic networks and to accelerate their early development. Additionally, the Working Group provides a platform for presenting and discussing research activities, major achievments and trends involving the all-optical communication networks.

SCOPES

The Working Group scope includes:

- Architectures, system design, control mechanisms and applications that exploit the abundant transmission capacity and flexibility of photonics.
- Development of analytical and simulation tools as well as methods for analysing, operating, dimensioning, and planning photonic networks.

WG6.11 – Communication aspects of the e-World
est. 2000, revised 2001, 2010

AIMS

To organise and promote the exchange of information on communication protocols and information exchange mechanisms for Electronic Commerce. To foster research, development, standardisation, and applications for communication platforms and services for pre-sales support, sales and service management, settlement, and virtual enterprises in and open trading environment.

SCOPES

The scope of the work encompasses all aspects of communication and information exchange in Electronic Commerce, including:

- Navigation, brokerage, advertising, and catalogue exchange in pre-sales activities.

- Negotiation and contract making protocols in interactions between consumers, businesses, and public administration.
- Secure exchange of documents, content and value in open trading protocols.
- Communication platforms for the e-Economy, including e-commerce, e-business and e-government.
- Application of mobile agent technology.
- Advanced devices and protocols for the support of mobility and the ubiquitous access to electronic markets

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WG6.12 – (joint with WG2.14/8.10, see TC2)
est. 2011, revised 2012

TC 7 - System Modeling and Optimization - Aims and Scopes

est. 1972

AIMS

- to provide an international clearing house for computational (as well as related theoretical) aspects of optimization problems in diverse areas and to share computing experience gained on specific applications;
- to promote the development of necessary high-level theory to meet the needs of complex optimization problems and establish appropriate cooperation with the International Mathematics Union and similar organisations;
- to foster interdisciplinary activity on optimization problems spanning the various areas such as Economics (including Business Administration and Management), Biomedicine, Meteorology, etc., in cooperation with associated international bodies.

SCOPES

Computational aspects of optimization problems arising in such areas as Aerospace, Biomedicine, Economics, Meteorology, and Public Services (Health, Environment, Police, Fire, Transportation, etc.).

Some specific examples are:

- on-line and off-line computational techniques in modelling and control of dynamic systems;
- trajectory analysis and computation;
- optimization of decentralized systems (macro-economic systems) and systems with multicriteria;
- optimization of resource allocation in urban systems;
- optimization of pollution-control systems;
- optimization of man-machine systems;
- optimization of power systems operation.

WG7.1 - Modeling and Simulation

est. 1972

AIMS

To foster cooperation and information interchange among those engaged in the simulation of large and complex systems including specialists in:

- Modelling and Identification Methodology;
- Simulation Methodology;
- Computer Simulation Languages;
- Interactive On-Line Computation;
- Hybrid Computation.

SCOPES

The work will include three major classes of problems:

- Environmental Systems
- Biological Systems
- Societal Systems

using various approaches such as:

- new simulation languages for digital simulation;
- new computer graphics techniques;
- application of pattern recognition and feature extraction methods;
- new mathematical techniques (e.g. finite elements);
- new data base organisations and simulations of data bases.

WG7.2 - Computational Techniques in Distributed Systems
est. 1973

AIMS

To foster the international exchange of ideas and experience in the area of Computational Techniques with particular emphasis on distributed systems arising in diverse disciplines such as Mechanics, Economics, Biomedical Engineering, Geophysics, etc.

SCOPES

Computational Techniques for Identification and Optimal Control of Systems Modelled by Partial Differential Equations;

Computational Techniques for Structural Problems, Elasticity, Plasticity, etc., including various approaches such as: Finite Element Approximation Techniques, Decomposition Techniques, Interactive and Graphic Computer Techniques.

WG7.3 - Computer Systems Modeling
est. 1973

AIMS

The work of the Group is directed toward improving the art of analyzing and optimizing performance and costs of data processing systems through the use of analytical models.

SCOPES

- optimized allocation of resources (such as memory, telecommunication lines, computer power, and points of concentration and switching), in distributed information processing systems;
- analyses of throughput and response time;
- analyses of reliability in the presence of failures of hardware, software or telecommunications;
- analyses of CPU main memory and I/O channel scheduling and allocating procedures;
- analyses of storage systems including memory hierarchies and geographically distributed data bases;
- comparison with simulations and with performance indices measured experimentally.

WG7.4 - Inverse Problems and Imaging
est. 2014

AIMS

To foster cooperation between experts in the fields of inverse problems and imaging on the development of reliable and efficient reconstruction methodologies and the convergence analysis of algorithms. To also stimulate exchange with other working groups in TC7, e.g., on optimization and control methods, modelling with differential equations, and stochastic aspects.

SCOPES

A core topic of common interest of this working group is variational methods for solving inverse and imaging problems. The members of the working group additionally contribute to the technical committee their specific expertise on aspects related to these areas of, e.g., mathematical modelling, optimization techniques, partial differential equations, harmonic analysis, regularization techniques, parameter identification, recovery of interfaces, and stochastic noise modelling.

WG7.5 - Reliability and Optimization of Structural Systems
est. 1986

AIMS and SCOPES

Promote modern structural system reliability and optimization theory;

- Advance international cooperation in the field of structural system reliability and optimization theory;
- Stimulate research, development and application of structural system reliability and optimization theory;
- Disseminate and exchange the information on reliability and optimization of structural systems;
- Encourage education in structural system reliability and optimization theory.

WG7.6 - Optimization-Based Computer Aided Modeling and Design
est. 1989, revised 1999

AIMS

The Working Group 7.6 considers high-performance computer-aided systems to support modelling, decision analysis, optimization and multi-criteria decision making.

The Working Group is focused on

- Policy and Management (Application Focus)
- Optimization, Multi-Criteria Decision Analysis and Simulation (Methodological Focus)
- Design, Planning and Scheduling (Problem Type Focus)
- Modelling and Implementation of Intelligent Systems (Information Technology Focus)

SCOPES

Any methodological approach or combination of solution techniques, which solves real world problems successfully. Thus, the following problem types are examples of application areas in policy and management the WG will deal with:

- Network Design (Communication, Transportation, Traffic)
- Planning and Scheduling in Transportation Logistics
- Production Planning and Scheduling
- Environmental. Planning Problems

WG7.7 - Stochastic Optimization
est. 1989

AIMS

To foster international cooperation among experts in stochastic optimization, and to spread information about the achievements of the field into areas of possible applications.

SCOPES

Subject of this WG are all problems involving in an essential way stochastic components (variables or processes) and the task of optimizing functions. In particular this includes:

- Theoretical investigation of stochastic optimization models;
- Design, development and analysis of solution methods;
- Modelling practical problems by stochastic optimization problems, e.g. in agriculture, industrial production, finance, power systems, water reservoir management, and implementing stochastic optimization models into decision support systems.

TC 8 - Information Systems - Aims and Scopes

est. 1966, revised 1990

AIMS

To promote and encourage interactions among professionals from practice and research and advancement of investigation of concepts, methods, techniques, tools, and issues related to information systems in organisations.

SCOPES

The planning, analysis, design, construction, modification, implementation, utilization, evaluation, and management of information systems that use information technology to support and coordinate organisational activities including:

- effective utilization of information technologies in organisational context;
- interdependencies of information technologies and organisational structure, relationships and interaction;
- evaluation and management of information systems;
- analysis, design, construction, modification and implementation of computer-based information systems for organisations;
- management of knowledge, information, and data in organisations;
- information systems applications in organisations such as transaction processing, routine data processing, decision support, office support, computer-integrated manufacturing, expert support, executive support and support for strategic advantage plus the coordination and interaction of such applications;
- relevant research and practice from associated fields such as computer science, operations management, economics, organisation theory, cognitive science, knowledge engineering, and systems theory.

WG8.1 - Design and Evaluation of Information Systems
est. 1976, revised 1990 and 1992

AIMS

The planning, analysis, design and evaluation of information systems for organisations.

SCOPES

- Identify concepts and develop theories relevant to the planning, analysis, design and evaluation of information systems;
- Develop languages, techniques, tools and methods for applying these concepts and theories to the:
  - planning
  - requirements analysis and determination, and specification
  - design
  - evolution of information systems, and their verification, validation and overall evaluation;
- Develop methodologies for the analysis, evaluation and selection of information systems development methods;
- Take cognizance of relevant work from associated fields - such as computer science, software engineering, knowledge engineering, cognitive science, management science, organisation theory and systems theory - and apply the findings to the development of information systems.

WG8.2 - The Interaction of Information Systems and the Organization
est. 1977, rev. 2005

AIMS

- To develop integrative frameworks that facilitate recognition and transfer or relevant knowledge about the role and uses of IT. Such frameworks can be based on a wide range of disciplines. these frameworks should be open to all research traditions and lines of research which further the study of the uses of IT in organizational contexts., and can also include the critical questioning of their relevance for the scope and aims of WG 8.2.
- To build theories and generate evidence about the role and impact of IT in specific organizational contexts.
- To improve the ways and means by which organizations design, implement and maintain IT.
- To nurture a critical discourse about the role which IT plays in the lives of people as individuals and as members of complex social institutions such as government, community, business, professional societies and other forms of social associations.
- To engage in ethical discourse about the practices and dilemmas which arise in the development, use and consequences of IT, or in research about such technology.

SCOPES

Working Group 8.2 is concerned with the generation and dissemination of descriptive and normative knowledge about the development and use of information technologies in organizational contexts, both broadly defined. By information technology (IT), we mean technologies that can be used to store, transfer, process or represent information. By organizational context, we mean the institutional arrangements in which information is used or created. Descriptively, the WG seeks to generate and disseminate knowledge about and improve understand of the role and impact of information technology across a range of social levels (society, organization,
individual) and across a diversity of spheres (marketplace, workplace, home, community). Normatively, it seeks to improve the design and application of information technologies that are both useful and effective for individuals, groups, organizations and society at large.

WG8.3 - Decision Support
est. 1981

AIMS

The development of approaches for applying information systems technology to increase the effectiveness of decision-makers in situations where the computer system can support and enhance human judgements in the performance of tasks that have elements which cannot be specified in advance.

SCOPES

To improve ways of synthesizing and applying relevant work from resource disciplines to practical implementations of systems that enhance decision support capability;

The resource disciplines include

- information technology
- artificial intelligence
- cognitive psychology
- decision theory
- organisational theory
- operations research and modeling.

WG8.4 - E-Business Information Systems: Multi-disciplinary research and practice
est. 1986, rev. 2001, 2002

AIMS

To promote collaboration across disciplines in E-Business research and practice.

SCOPES

This working group provides a reference point and a focus for multi-disciplinary research and practice in E-Business. The intention is to extend the community's focus on E-Business to recognize, acknowledge and facilitate research and practice as it crosses the boundaries of IS, organizational, consumer, community, industry and national domains.

Where researchers and practitioners focus on specific issues and technologies, eg smart-card developments, mobile technologies or organizational adoption of IT practices then that research is more properly located within existing working groups. Where that work is cross or multi-disciplinary it can be located here.

WG8.5 Information Systems in Public Administration
est. 1988

AIMS

To improve the quality of information systems in public administration at international, national, regional and local levels. The Working Group's special emphasis is on the relationship between central and local use of information systems and the provision of citizen services, together with the accomplishment of social goals.

SCOPES

- analyse information processing policies in public administration;
- discuss specific applications of information systems in public administration;
- analyse the impacts of information systems on public administration;
- apply the results of other IFIP Working Groups, and specifically of TC 8 Working Groups, to public administration.

WG8.6 - Transfer and Diffusion of Information Technology
est. 1994

AIMS

To foster understanding and improve research in practice, methods, and techniques in the transfer and diffusion of information technology within systems that are developed and in the develop-ment process.

SCOPES

- Diffusion, transfer, and implementation of both mature and immature information technologies and systems in organizations and among organizations, sectors, and countries.
- Transfer of technology to be incorporated in systems for customers and clients.
- Transfer of both system and development technologies to technologists, developers, managers, and sponsors of systems.
- Development of frameworks, models, and terminology for information technology transfer and diffusion.
- Identification of risk factors and barriers to success in technology transfer and strategies for addressing them.

- Conditions or scenarios under which specific transfer and diffusion techniques are applicable.
- Methods to evaluate the efficiency, effectiveness, and value of technology transfer programs and approaches, including time and effort estimators and metrics.
- Organization design and process issues related to technology transfer and diffusion.
- Case studies of technology transfer and diffusion to provide instances to guide research, development, and practice.
- Standards and intellectual property issues that inhibit or facilitate information technology transfer.

WG8.8 - Smart Cards
est. 1998, rev. 2001

AIMS

Smart cards are to be understood as personal, portable, flexible, secure tokens that form an integral part of a larger information infrastructure. Therefore the aims of WG 8.8 are:

- to encourage interaction between the numerous actors in the smart card area.
- to create a common and coherent approach of a specific methodology.
- to address the background technologies of component architectures; for example dedicated chips, security devices, memory management.
- to specify and design smart card operating systems.
- to identify and develop relationship between different themes of information systems and smart cards, for example promote the theme of smart cards as a widely distributed data base.
- to identify interfaces between smart cards as an active components of distributed systems and networks.
- to promote a global security analysis of information systems using smart cards.
- to investigate the field of applications of smart cards and propose a scheme for a design methodology.
- to create new models for information systems which use smart cards.
- to participate to advanced standardization discussions and propositions.

SCOPES

The study of smart cards as an innovative component of widely distributed systems. The scope includes all the aspects of smart cards design and applications:

- Technology with hardware, software and security specific requirements.
- Application design with a special emphasis on development methodology of distributed systems.
- Service providing including analysis of transactions, protocols and more generally speaking, the process of a top down design of smart cards projects.
- The interaction of smart card related technology with society, economics, public services and organizations.

WG8.9- Enterprise Information Systems
est. 2006, revised 2016

AIMS

- Provide a forum for international collaboration and dissemination of research and best practices in the enterprise information systems (EIS) area
- Establish close cooperation between academics and practitioners in the area of EIS
- Increase the impact of research and use development in the area of EIS

- Study and share the results of methodologies, design, implementation and use of EIS and increase the efficiency of innovation

SCOPES

- Concepts, theories, techniques, and implementation relevant to enterprise information systems
- Management of Enterprise Information Systems
- Utilization of Enterprise Information Systems solutions in small and medium size enterprises, in the public sector and also in the supply chain environment
- Identification and sharing of best practices encountered in the use of present day EIS
- Integration of enterprise wide applications

WG8.10 – (joint with WG2.14/6.12, see TC2)
est. 2011, revised 2012

WG8.11/11.13 – Information Systems Security Research
est. 2010, revised 2013

AIMS

The aim of the working group is the creation, dissemination, and preservation of well-formed research about information systems security. While relevant for advanced practical development, our primary audience consists of researchers in this area. We value research products with highly reliable and validated theory, empirical data, or quantitative/qualitative social scientific methodology.

SCOPES

Anchoring to information systems means our research will attend and extend the social, organizational, and managerial literature in this area. While we assume an effective foundation in information security technology, we regard information systems risks broadly, for example crime, employee misconduct, warfare, terrorism, error, accident, natural events, etc. We also address information systems security broadly, for example, privacy, awareness, policies, strategy, audit, planning and control.

TC 9 – ICT and Society - Aims and Scopes

est. 1976, revised 2008, 2009

AIMS

The TC9 aims:

- To develop understanding of how ICT innovation is associated with change in society;
- To influence the shaping of socially responsible and ethical policies and professional practices.

SCOPES

The TC9 fosters multidisciplinary discourse into:

- The role of ICT in the change of particular domains of human activity, including work; the home and private life; governance.
- Ethical, political, economic and cultural dimensions of ICT innovation.
- Issues stemming from ICT innovation, such as gender, the phenomenon of virtuality, sustainable development.

WG9.1 - Computers and Work
est. 1977

AIMS

- to study and report on how computers have affected employment levels, job content and structure, working conditions, career patterns, and participation problems;
- to give an account of problems relating to computers and work, and of proposed measures for dealing with these problems;
- to encourage and support the design and development of systems which promote not only efficiency but provide job satisfaction, for example through interesting work and reduction of stress.

SCOPES

The effects of computerization on the lives of three distinct groups of person:

- computer professionals,
- users of computers,
- non-users affected by computers.

WG9.2 - Social Accountability
est. 1977, revised 2009

AIMS

- To provide an international forum for assessing the social consequences of ubiquitous Information and Communication Technologies (ICT) and its applications
- To promote the safe and socially beneficial development and use of ICT

- To encourage a human-centred and inclusive approach in the design and implementation of ICT, together with responsible long-range planning
- To foster academic discussion on the use of ICT in its capacity to enhance the quality of life

SCOPES

Those aspects of ICT development and implementation that impact on society in general and which affect the public interest in particular, such as:

- Privacy and confidentiality
- Inclusion, access for all, and choice
- Equality in system relationships
- User and IT professional education and awareness
- Social consequences of future technologies
- Ethical, legal and regulatory issues

WG9.3 - Home-Oriented Informatics and Telematics
est. 1988, revised 1989

AIMS

- Foster benevolent design, develop-ment, implementation, applications and use of Home-Oriented Informatics and Telematics (HOIT).
- Encourage surveys and studies on HOIT.
- Develop methodologies for studying social implications of HOIT.
- Establish a global platform for interaction, exchange, joint initiatives and co-operation between such groups as:
  - the end of users of HOIT: members of households
  - industrial developers and designers of HOIT technology and related services
  - implementation designers
  - policy, decision making, social and consultative bodies
  - architects and urban planners
  - scientists.

SCOPES

The social implications of informatics, communications and telematics in the home, the family and its environment (HOIT);

including:

- actual and potential human usefulness of HOIT;
- social impact of these technologies and their applications;
- developments of the underlying infrastructure;
- rationale in innovation and design processes;
- dynamics of technology development.

WG 9.3 explicitly cares about the position of and the potentials for vulnerable groups like children, less-educated, disabled, elderly and non-employed people, paid and non-paid workers at home, cultural minorities, unaware users and others.

WG9.4 - Social Implications of Computers in Developing Countries
est. 1989, revised 2007

AIMS

- to collect, exchange and disseminate experiences of information and communications technology (ICT) implementation in developing countries;
- to develop a consciousness amongst professionals, policy makers and public on social implications of ICT in developing nations;
- to develop criteria, theory, methods, and guidelines for design and implementation of culturally adapted information systems;
- to create a greater interest in professionals from industrialized countries to focus on issues of special relevance to developing countries through joint activities with other Technical Committees.

SCOPES

- national ICT policy issues;
- culturally adapted computer technology and information systems;
- role of transnational corporations, regional and international cooperation and self-sufficiency in informatics;
- social awareness of ICT and ICT literacy.

WG9.5 – Virtuality and Society
est. 1989, revised 1999, 2000, 2006, 2008

AIMS

The IFIP Working Group 9.5 (Virtuality & Society) sees information and communication technologies as being intertwined with society. In this sense, virtuality is taken as constituting both the social and the technical modes of existence. The aim therefore of this WG is to explore the globality of virtuality, the complex, emergent and changing nature of this field and to act as a location for transdisciplinary work on virtuality. Through workshops and conferences the WG will promote a dialogue and mutual exchange from a diverse set of disciplines such as computing, information systems, media studies, social theory and philosophy but also anthropology, organizational studies, gender studies, politics and ethics.

SCOPES

The scope of the working group is all aspects of virtuality as evident in a multiplicity of empirical sites and social phenomena. Given its scope, we welcome contributors from, but not limited to, the following areas:

- Ethics of virtuality
- Virtual media and art
- Computing games
- Telemedicine
- Internet studies
- Organizational Aspects of Virtuality
- Virtual politics and political web-sites
- Virtual reality

WG9.6/11.7 - Information Technology Mis-Use and the Law
est. 1990, revised 1992, 2001

AIMS

- To foster co-operation between the "Computers and Society" and "Information Security" communities on issues of "IT misuse and the law".
- To develop an understanding in IFIP committees and national bodies of:

- threats associated with IT systems and the related legal concerns.
- risks to people and organisations arising from these threats.
- responsibilities of people and organisations arising from legal and other provisions for information security.
- risks arising from incoherency between legal, technical and managerial provisions.
- the impact of IT systems on the current law, e.g. (criminal and civil law) and potential problems.

- To propose and/or evaluate legal and other prescriptions to combat these threats and their associated risks.
- To engender information exchange on threats, their origins, and possible consequences.
- To propose and/or evaluate legal and other appropriate courses of action.

SCOPES

- Analysis of existing and emerging threats to IT systems security, and the associated risks to people, organisations and society.
- Analysis of security principles.
- Aspects of the law where the use or introduction of IT on a global scale has rendered the current law (and/or its interpretations) obsolete or obsolescent or made it unenforcable.
- Analysis of potential means of countering and mitigating threats, e.g. legal frameworks, ethical standards, managerial procedures, and other social factors applicable to behaviour and responsibilities in the context of IT systems.
- Possible solutions.
- New legal, social and organisational consequences of the development and use of IT systems.

WG9.7 - History of Computing
est. 1992

AIMS

- To provide a central vehicle for information interchange regarding the methods and techniques of historio-graphy, especially as related to the opportunities for the studies of contemporary history.
- To provide expertise for the design, implementation and operation of archives and displays related to the history of information processing.
- To encourage the development of national archives.
- To develop a program of &132;Pioneers' Days" which recognize the contribution of pioneers and anniversaries of major events.
- To identify pioneers worthy of an appreciation and distinction and make "IFIP Pioneer Awards".
- To develop publication plans for histories of Information Processing.
- To promote the inclusion of historical modules in appropriate curricula.

SCOPES

The history of computing and informatics with a view to providing the impetus to preserve the records and artifacts of information processing inventions, practices and activities throughout the world under the auspices of

IFIP and its constituent organizations. One special focus is the socio-historical context and consequences of Information Technologies.

WG9.8 Gender Diversity and ICT
est. 2001, 2009

AIMS

This WG is dedicated to research and action how different areas of society being transformed by computer technology with particular emphasis on changes in women's work and life and how these have come about. It is based on the integration of gender studies and computer science. Membership is open to both women and men.

In this context the WG aims

- to serve as an international, interdisciplinary communication forum and to hold discussions in workshops and conferences,
- to exchange women's experiences as scholars and professionals in information technology,
- to integrate feminist perspectives into computer science,
- to develop an understanding in the IFIP communities and national bodies of the gendered aspects in design, realisation, and implementation of information systems,
- to propose and/or evaluate appropriate courses of action.

SCOPES

The topics cover the transitions from women's traditional work to work based on modern technology, from communication within personal communities to virtual communities, from traditional gendered life to new gendered perspectives. Computerisation is understood in the narrow sense of computing systems as well as in the broader sense which includes the organisational, ethical, and social context of design and usage.

Discourses are linked to

- the analysis of the effects of computer technology on women's status as citizens,
- the analysis of opportunities and risks of computerised technologies for women's work in the paid labour force and in domestic spheres,
- the analysis of gender perspectives in the formative and constructive processes of computers and information systems,
- the analysis of gender in computing education and educational strategies for girls and women.

WG9.9 ICT and Sustainable Development
est. 2005

AIMS

- To contribute to the development of an information society that meets the human needs of the present without compromising the ability of future generations to meet their own needs.
- To be actively involved in the development of ICT applications which involve the goal of sustainable development.
- To investigate the interactionamong social, environmental and economic issues in the development of ICTs and their applications.
- To promote worldwide research and practice for further advancement of ICT towards a safe and sustainable self developing World

- To strengthen inderdisciplinary research efforts in technology assessment for ICTs with a focus on ICT-induced opportunities and risks for the individual, for social systems and for the global ecosystem.
- To provide a platform for presenting and discussing emerging ideas and trends in the intersection of the topics 'information society' and 'sustainable development'.
- To promote or support the organization of meetings as well as easy access to high-quality data, information and knowledge in this area and related areas.

SCOPES

- To create a network of experts working on ICT applications or implications related to sustainable development
- To support the coordination of policies related to information society issues with policies related to sustanable development
- To support applications of ICT for global environmental and development issues
- To facilitate research assessing the environmental and health impacts

  a) of ICT hardware life cycles; production, use, recycling and final disposal
  b) of ICT applications with respect to the resource efficiency of processes they influence
  c) of ICT-induced long-term changes of consumption patterns or lifestyles.

- To promote the communication between computer professionals and other experts on relationships between ICT and sustainable development
- To promote prospective studies to disseminate early warnings on consequences of applications of ICT that could compromise the goal of sustainable development, and encourage the development of strategies to ensure that ICT applications will contribute to sustainable development.

WG9.10 ICT Uses in Peace and War
est. 2013

AIMS

The aim of this working group is to focus the efforts of academia and research institutions, industry, governments, civic society, and the military to promote creative thinking in this field and to encourage viable solutions to so-far unanswered questions. This group will encourage dialogue by providing a platform for the presentation of research papers, current research or the result of research in progress, case studies, use cases, lessons learned, and risk assessment/impact assessment.

SCOPES

The scope of the working group includes any aspects that pertain to how ICT may influence, affect, or threaten individuals, society or nations in relation to either war or peace, as well as how these concerns are perceived by these three levels of grouping (persons, society or nations).

The following themes are all relevant in terms of their orientation in their use in war and peace. The items which are listed in alphabetic order do not reflect the eventual prioritization of the subjects to be covered:

- Cyber warfare
- Cyber security awareness
- Forensic applications and solutions
- Governance and standards
- Hacking, cracking and other technical challenges
- ICT, critical infrastructure and society
- Social aspects of critical infrastructure protection

- ICT strategies from a holistic, peaceful, and humane perspective
- ICT uses to prevent conflicts and contribute to peace
- ICT uses from a military perspective
- Legal, ethical and social issues related to information security
- Promotion of democratic practices through ICT uses
- Social networking
- Socio-technical aspects of ICT uses in peace and war
- Strategic information security
- Vulnerability assessments
- Research and education on the impact of ICT in peace and war

While it is anticipated that this working group will build associations with other working groups in TC9, and possibly with working groups in TC11 or TC3, it is also feasible that it could become associated with work undertaken by such international and national associations as the International Telecommunications Union, United Nations and UNESCO.

TC 10 - Computer Systems Technology - Aims and Scopes

est. 1976, revised 1987

AIMS

The Aims of the Committee are the promotion of the State-of-the-Art and the coordination of information exchange on concepts, methodologies, and tools in the stages in the life cycle of computer systems.

SCOPES

- system and component concepts, architecture and organisation;
- specification, design and verification methodologies of computer systems;
- logical design and fabrication of components and systems;
- evaluation of the parameters of computer systems and components;
- reliability;
- assessment of emerging technologies;
- application specific computer systems and components including peripherals.

WG10.2 – Embedded Systems

est. 2006

AIMS

The WG10.2 shall be constituted as a group under the sponsoring organization with the following basic aims:

- to be the internationally open reference group for all aspects of embedded system design promoted and sponsored by the sponsoring organization of the WG10.2:
- to further the dissemination and exchange of information and experience on research and applications in the area of embedded systems;
- to address ES designers and researchers from both, industry and academia;
- to encourage education in all areas of embedded systems;
- to further the interdisciplinary character of embedded systems, that encompasses hardware (system on a chip), real-time software, real-time operating systems, control theory, intelligent features, dependability issues.

SCOPES

Embedded systems are gaining increasing importance in all aspects of engineering. It is expected that in the near future roughly no technical artifact will exist without embedded information technology. There is a tendency to software oriented embedded and/or dependable systems, based on standardized micro-controller cores. This implies that the design of embedded real-time software and real-time operating systems will play a dominant role in this field. As more and more networks of micro-controllers are applied, real-time communication systems and in general the design of distributed embedded systems will gain importance. As high-performance embedded computing components have become available the challenges of designing embedded systems have become more acute.

The scope of WG10.2 comprises in detail to:

- organize events in the area of ES (e.g. DIPES (Distributed and Parallel Embedded Systems));
- seek co-operation with user and interest groups as well as with ES-oriented groups within IFIP and other societies;
- discuss, disseminate and exchange information on ES-related standardization activities;
- study and encourage curricula on ES design;
- initiate and organize new ES-related activities.

WG10.3 - Concurrent Systems
est. 1978, revised 1979, 1988, 2006

AIMS

The study of computer systems, having several computing elements, with the goal of improving the quality of attributes such as cost, performance, programmability, extendability and functionality.

The study includes the interrelation software/firmware/hardware in specification, design and implementation.

SCOPES

- Exploration of problem areas and solutions pertaining to the interrelation between the hardware functions and the software functions in systems such as supervisors, data management, language translators, I/O systems, and user interfaces.
- Evaluation of the implementation of trends in computer systems technology on the interrelation of software, firmware and hardware.
- Evaluation of the implication of this interrelation in the trends in computer systems technology.

WG10.4 - Dependable Computing and Fault Tolerance
est. 1980, revised 1988

AIMS

Increasingly, individuals and organizations are developing or procuring sophisticated computing systems on whose services they need to place great reliance. In differing circumstances, the focus will be on differing properties of such services - e.g. continuity, performance, real-time response, ability to avoid catastrophic failures, prevention of deliberate privacy intrusions. The notion of dependability, defined as that property of a computing system which allows reliance to be justifiably placed on the serve it delivers, enables these various concerns to be subsumed within a single conceptional framework. Dependability thus includes as special cares such attributes as reliability, availability, safety, security. The Working Group is aimed at identifying and integrating approaches, methods and techniques for specifying, designing, building, assessing, validating, operating and maintaining computer systems which should exhibit some or all of these attributes.

SCOPES

Specifically, the Working Group is concerned with progress in:

- understanding of faults (accidental faults, be they physical, design induced, originating from human interaction; intentional faults) and their effect;
- specification and design methods for dependability;
- methods for error detection and processing, and for fault treatment;
- validation (testing, verification, evaluation) and design for testability and verifiability;
- assessing dependability through modelling and measurement.

WG10.4 SIG on Education in Resilient Computing
est. 2009

AIMS

The primary aims of the SIG are:

- To acquire knowledge on how Resilient Computing is taught today in different worldwide higher educations institutions;
- To compare the experiences so to provide an incremental process towards the structuring of an educational track in Resilient computing;
- To promote the outcomes of the SIG to update or change or start proper tracks in Resilient Computing in higher educations institutions;
- To interact with\international bodies working on educational issues i.e. ACM, IFIP, etc., to present the outcomes of the SIG;
- To collect and make accessible, through the web, support material useful to cover the several disciplines relevant to Resilient Computing
- To build and maintain a comprehensive database of material, available to the community of students, scientists, industrial designers and regulatory bodies

SCOPES

The adjective resilient has been in use for decades in the field of dependable computing systems essentially as a synonym of fault-tolerant, thus generally ignoring the unexpected aspect of the phenomena the systems may have to face. These phenomena become of primary relevance when moving to systems like the future large, networked, evolving systems constituting complex information infrastructures – perhaps involving everything from super-computers and huge server "farms" to myriads of small mobile computers and tiny embedded devices, with humans being central part of the operation of such systems. Such systems are in fact the emergence of the ubiquitous systems that will support Ambient Intelligence.

From an educational point of view, very few Universities, if any, are offering a comprehensive and methodical curriculum that is able to provide students with a multi-disciplinary preparation that makes them able to cope with the challenges posed by the design of ubiquitous systems. Multi-disciplinarily spans over dependability, security, usability, human factors, legal issues and ethics. Thus, from the educational point of view there is the need to scale-up the spectrum of topics offered, to identify the best curricular structure to make successful both teaching and learning processes.

It is thus relevant to have an open worldwide forum in which the different educational approaches to teaching Resilient Computing are presented, compared and discussed to reach an agreed approach to this issue.

In addition it will be very valuable to collect together in a open and public database all available support material (as lecture's slides, textbooks, relevant literature, links to useful sites, etc.) that covers the different facets of multi-disciplinarily.

A first attempt to offer to our community a proposal for an MSc curriculum in Resilient Computing and gather extended support material has been done very recently in a European Network of Excellence ReSIST; the material is accessible at http://resist.isti.cnr.it/home.php.

WG10.4 SIG on Concepts and Ontologies

est. 2009

AIMS

- **1.** To take part in the development of the updated Computing Classification System (CCS) that is undertaken by the ACM to assure that our domain of interest is properly represented, since that was not the case in the two previous versions (1988 and 1998) of the CCS.
- **2.** To develop a thesaurus and an ontology that integrates the concepts of dependability, security, resilience, robustness, trustworthiness, survivability, high confidence, information assurance, self-healing (and possibly other related terms) and identifies their similarities and differences.
- **3.** To employ document clustering algorithms and other classification techniques in order to create a methodology for automatic identification of related documents from all the domains listed in Aim 2 above. To use the methodology in developing automatic tools that assist researchers and referees in creating and evaluating new research results.
- **4.** To use advanced natural language processing (NLP) tools and to collaborate with artificial intelligence experts of the computational linguistics and knowledge representation domains in the pursuit of the above Aims 2 and 3.
- **5.** To use our experience in order to promote the formation of an IFIP activity aimed to create a thesaurus, an ontology and a classification system for the entire field of informatics (computer science and engineering), possibly in collaboration with the ACM.

SCOPES

Dependability has naturally concerned most disciplines of computer science and engineering (informatics) since the early days. As a consequence, significantly different terminologies were developed by different communities to describe the same aspects of dependability. The terminologies became entrenched through usage at annual conferences, in books, journals, research reports, standards, industrial handbooks and manuals, patents, etc.
As an illustration, we have the concepts of dependability, security, trustworthiness, survivability, high confidence, resilience, information assurance, robustness, self-healing, etc., whose definitions appear to be identical or to overlap extensively. In many cases the definitions themselves have multiple versions that depend on a given author's preference.
An example of a long-term effort to create a framework of dependability and security concepts is the effort within IEEE CS TC/DCFT and IFIP WG 10.4 that since a special session at FTCS-12 in 1982 has resulted in a series of papers, a six-language book, and in 2004 a "Taxonomy" paper in vol.1, no.1 of the *IEEE Transactions on Dependable and Secure Computing*. No other community has produced such a taxonomy.
The description of a domain by several synonyms or near-synonyms that lack well-defined distinctions is a source of continuing confusion that leads to re-inventions and plagiarism, impairs the transfer of research results to practical use in industry and impairs the recognition of related documents.
The orderly progress of dependability research and its practical applications requires that past work as well as new results should be classified on the basis of a single ontology and thus made accessible to the entire profession. However, it is unreasonable to expect that a committee formed by the different communities could by volunteer effort create a taxonomy document from which a single consensus ontology could be generated.
It must be concluded that today the purely "intellectual" (i.e., human) process of ontology building for dependability concepts is reaching its limits. The complementary solution is to augment the human effort by the use of automatic natural language processing tools that have been developed by computer linguists. The next step must be computer-aided building of a consensus ontology.
During the past decade much progress has been made in the development of computer tools for human language processing. Such tools have been developed for the extraction of term candidates from a corpus (set of texts). A thesaurus (list of important terms with related terms for each entry) is constructed from the term candidates. The ontology for a given domain is a data model that represents those terms and their relationships. Automatic indexation of the texts is carried out using the thesaurus, followed by clustering analysis using statistical and linguistic techniques. A measure of similarity between texts is computed that serves as a basis for automatic classification. The applicability of the above listed techniques to texts in the dependability domain has been part of research supported by the European Network of Excellence ReSIST (Resilience for Survivability in Information Society Technologies) in 2006-2009.
The corpus is composed of the texts of nearly 2000 papers presented at all 29 FTCS and 7 DSN conferences (1971-2006).The encouraging results of the processing of texts from the FTCS/DSN community leads to the conjecture that similar processing of texts from other conferences, journals, books, industrial documents, etc., will produce other ontologies that can be merged into a consensus ontology that covers the entire domain of dependability and its near-synonyms.
A dependability ontology is an integral part of an (still non-existent) ontology for all of computer science and engineering. The only existing and widely used taxonomy that could be used to build it is the ACM Computing Classification System (CCS). The CCS was created in 1988 and was last revised in 1998. It has fallen far behind the evolution of CS&E and information technology. The concepts of dependability are treated very inadequately, and many significant dependability terms are altogether missing in the 1998 ACM CCS taxonomy.
The coming update of the CCS is a challenge to the dependability community: we must take part in the process of creating an up-to-date and evolvable version of the CCS that adequately incorporates dependability concepts. The new CCS would allow the computer-aided construction of a thesaurus and an ontology for the entire CS&E profession. However, a consensus dependability ontology with explicit synonymy relations must be available to the CCS builders.
Finally, it is very appropriate for IFIP to take part in the building of a CCS. The experience of the SIG can serve as a starting point for such an effort within IFIP.

WG10.5 - Design and Engineering of Electronic Systems
est. 1981, revised 1988, merged with WG 10.2 in 1994, rev. 2003

AIMS

Electronic system design demands a tight integration on a very large profile of knowledge and skills ranging from hardware and software system architecture to semiconductor physics.
Functionality of complex embedded or stand-alone systems, to be applied in areas such as general-purpose computing, telecommunications, automotive, entertainment, and multimedia, may be realized by various combinations of analog and digital hardware and software parts.
Systems can be implemented by single or multiple integrated circuits and software modules that can be either of special purpose, programmable or reconfigurable.
The working group aims at providing a forum amongst creative experts to explore problem areas and solutions for the design of such complex electronic systems and also disseminating the solutions to a broader industrial and educational sphere.

SCOPES

The Working Group is interested in a broad range of topics related to the design and engineering of heterogeneous systems, containing hardware, software, and even mechanical parts.

- System Design Methods
- Embedded Systems
- Modeling and Specification
- Design Validation
- Formal Methods in Design
- Synthesis
- Design Environments
- Reconfigurable Computing
- VLSI Systems and Applications
- Physical Design
- Test and Testability
- Power-aware Design
- Analog and Mixed-Signal Systems
- Fundamental CAD Algorithms

TC 11 - Security and Privacy Protection in Information Processing Systems - Aims and Scopes

est. 1984, revised 2006, 2009

AIMS

To increase the trustworthiness and general confidence in information processing and to act as a forum for security and privacy protection experts and others professionally active in the field.

SCOPES

Work towards:

- the establishment of a common frame of reference for security and privacy protection in organizations, professions and the public domain;
- the exchange of practical experience;
- the dissemination of information on and the evaluation of current and future protective techniques;
- the promotion of security and privacy protection as essential elements of information processing systems.
- The clarification of the relation between security and privacy protection.

WG11.1 - Information Security Management

est. 1985, revised 1992

AIMS

As management, at any level, may be increasingly held answerable for the reliable and secure operation of the information systems and services in their respective organizations in the same manner as they are for financial aspects of the enterprise, the Working Group will promote all aspects related to the Management of Information Security.

These aspects cover a wide range, from purely managerial aspects concerning Information Security, (like upper management awareness and responsibility for establishing and maintaining the necessary policy documents), to more technical aspects (like risk analysis, disaster recovery and other technical tools) to support the Information Security management process.

SCOPES

- to study and promote methods to make senior business management aware of the value of information as a corporate asset, and to get their commitment to implementing and maintaining the necessary objectives and policies to protect these assets
- to study and promote methods and ways to measure and assess the security level in a company and to convey these measures and assessments to management in an understandable way;
- to research and develop new ways to identify the Information Security threats and vulnerabilities which every organization must face;
- to research and identify the effect of new and changed facilities and functions in new hardware and software on the management of Information Security;
- to study and develop means and ways to help information security managers to assess their effectiveness and degree of control;
- to address the problem of standards for Information Security.

STATEMENT OF CASE

There is a growing trend for senior business management to be held answerable for the reliable and secure operation of their information systems, as they are for control of their financial aspects. Information Security is, and should always be upper management responsibility.
Information security professionals, and WG 11.1 in particular, should therefore be responsible for the development of all types of tools, mechanisms and methods to support top management in this new responsibility.

WG11.2 – Pervasive Systems Security
est. 1985, revised 1992, 1995, 2009

AIMS

To investigate methods and issues in the area of information security related to pervasive systems; and to advance knowledge and awareness of the subject through publications, conferences and other means. The aim is to address pervasive systems security from both a functional, technical, and societal perspective.

SCOPES

The scope of the working group shall be to:

- Promote the design of the new information security techniques and methods in pervasive systems.
- Investigate and report on the information security aspects of information technology products and information services for pervasive systems.
- Design guidelines and promote methodologies for the implementation of information security in pervasive systems.
- Investigate intelligent token and smart card applications in information security with the aim of making the user less dependent on single fixed environment.
- To foster public debate on the security and privacy issues that emerge when pervasive systems are deployed on a large scale.

STATEMENT OF CASE

Pervasive systems shall be defined to be large scale systems that are comprised of nodes ranging from RFID tags, through embedded systems, to personal mobile devices, interconnected by a mixture of short range wireless and wide are wired networks. The typical characteristics of a pervasive system are: resource constrained nodes, often physically unreachable or without user interface, whose interconnections often span a large number of administrative domains with conflicting interests. Security of such systems is therefore an emergent property.

WG11.3 - Data and Application Security and Privacy
est. 1987, revised 2001, 2011

AIMS

To promote wider understanding of the risks to society of operating data management systems that lack adequate measures for security or privacy.

To encourage the application of existing technologies for enhancing the security and privacy of data management systems.

SCOPES

To advance technologies that support:

- the statement of security and privacy requirements for data management systems;
- the design, implementation, and operation of data management systems that include security and privacy functions; and
- the assurance that implemented data management systems meet their security and privacy requirements.

WG11.4 - Network & Distributed Systems Security
est. 1985, revised 1992, 1997, 2003, 2016

AIMS

- To study and promote internationally accepted processes which will enable management and technicians to fully understand their responsibility in respect of the reliable and secure operation of the information networks which support their organizations, their customers or the general public.;
- To study and promote education and training in the application of security principles, methods, and technologies to networking.

SCOPES

The scope of the working group is:

- To promote the awareness and understanding of the network aspect of information systems security.
- To provide a forum for the discussion, understanding and illumination of network security matters.
- To study and identify the managerial, procedural and technical aspects of network security; and hence to define the network security issues.
- To study and describe the risks that arise from embedding an information system in a network environment.
- To advance technologies and practices that support network security controls, make possible the statement of requirements for network security, and in general, advance the foundation for effective network security.
- To contribute, as feasible and appropriate, to international standards for network security.

STATEMENT OF CASE

Management in any organization is responsible for the reliable and secure operation of the information systems that support the organization. As inter and intra-organization networking between information systems become the rule as well as the daily operational environment, the scope of concern takes on new aspects and new technical details come into play.
Management must not only address the security issues of wholly internal systems together with any networks to which they might be connected, but also must assure that the protective mechanisms installed in them are not accidentally or intentionally thwarted or subverted by other systems with which data exchange connections are established.

The range of subjects includes local area networks, regional and wide area networks, homogeneous and heterogeneous networks, and the networks which can arise for varying periods of time as a result of operational requirements for temporary or semi-permanent interconnections which can exist for varying periods of time.

Such networks will include dial-up or other connections which permit an organization's employees to work from their homes, and those external connections enabling organizations to transact mutually linked business activities e.g. such as will take place under EDI agreement.

WG11.5 – IT Assurance and Audit
est. 2013

AIMS

The aim of the Working group (hereinafter referred to as WG) as part of TC-11 is to study and develop detailed knowledge on IT assurance and audit models, standards, processes and techniques to meet the needs of organizations from a wider business perspective. The WG provides professionals operating in the field thorough insight into the IT audit function in financial reporting and compliance, and offers pragmatic ideas, approaches, instruments, guidelines and tooling that contribute to responsibly utilizing a demand driven way of IT assurance in addition to the existing and common practices.

Although the application and benefits of IT assurance and audit services are definitely in no doubt, it is essential to advance these necessary products to the next and more actual and mature level with a broad organizational focus that also possesses a risk and future based characteristics

SCOPES

The following topics are initially part of the WG:

- IT audit in financial statement review.
- IT assurance reporting standards.
- IT risk management and Enterprise Risk Management (ERM)
- Continuous assurance and audit.
- Information assurance.
- Software assurance.
- Governance, Risk and Compliance (GRC).
- Service assurance tooling.

The WG seeks collaboration with other working groups inside and outside IFIP. Examples include, but are not limited to, Information Systems Audit and Control Association (ISACA).

WG11.6 – Identity Management
est. 2006

AIMS

The aim is to promote through education, research and outreach, the awareness and understanding of:
1. Identity management in general, and, in this context:
   - identity management applications and methodologies;
   - optical and electronic document security;
   - potential and actual role and function of biometrics in particular;
2. Methods and techniques that can help to evaluate (specific) biometric technologies;
   - operational aspects of biometrics;
   - legal aspects of the application of biometrics;
   - impact of biometrics on society;
   - methods and techniques that can help to improve the quality of biometric technology (performance, privacy, compliance); and
3. National identity management in particular:
   - national identity management as (a kind of) federated identity management;
   - national identity management as a part of multilateral identity management;
   - (possible) role and effectiveness of identity management in fighting (inter)national fraud, crime and terrorism;
   - methods and techniques that can help to improve the quality of national identity management.

SCOPES

1. To establish and expand a common *identity management lexicon* so that the international community speaks the same language.
2. To propose, define and evaluate identity management applications and methodologies that will meet the standards of decision-makers in the public and private sector.
3. To propose, define and evaluate optical and electronical document security technologies that will meet the standards of decision-makers in the public and private sector.
4. To propose, define and evaluate biometric technologies and methodologies to be incorporated in (national) identity management that will meet the standards of decision-makers in the public and private sector.
5. To promote through education, research and outreach, a wider understanding of the legal, social and operational issues related to (national) identity management in general and the technologies mentioned above in particular.
6. In order to promote discussion related to research in the field, WG 11.6 will foster cooperation between:

- International communities
- Stakeholders, scientists and industry.
- Technicians, sociologists, biologists, philosophers, psychologists and political scientists.

WG11.8 - Information Security Education
est. 1991

AIMS

To promote information security education and training at the university level and in government and industry.

SCOPES

The scope of the working group shall be to:

- establish an international resource center for the exchange of information about education and training in information security.
- develop model courses in information security at the university level.
- encourage colleges and universities to include a suitable model course in information security at the graduate and/or undergraduate level in the disciplines of computer science, information systems and public service.
- develop information security modules that can be integrated into a business educational training program and/or introductory computer courses at the college or university level.
- promote an appropriate module about information security to colleges and universities, industry and government.
- collect, exchange and disseminate information relating to information security courses conducted by private organizations for industry.
- collect and periodically disseminate an annotated bibliography of information security books, feature articles, reports, and other educational media.

WG11.9 - Digital Forensics
est. 2004

AIMS

The aim of the IFIP WG11.9 group is to promote through education, research and outreach, the awareness and understanding of (i) the scientific methods and techniques that help to tell about a computer related security incident (including those that involve converging digital technology), what occurred, when it occurred, how it occurred, what resources were affected and who initiated the incident, in a manner that will support a legal action, and (ii) the operational and legal aspects of new and emerging digital technology so as to help develop such methods and techniques.

SCOPES

- To establish and expand a common digital forensics lexicon so that international community speaks the same language.
- To propose, define and evaluate core technologies that assist in the discovery, explanation and presentation of conclusive and persuasive digital evidence that will meet the heightened scrutiny of the courts and other decision-makers in military and civilian environments.
- To promote through education, research and outreach, a wider understanding of the legal, social and operational issues related to digital forensics.
- To foster cooperation between international communities so as to promote scholarly discussion related to digital forensic research and its application.

WG11.10 – Critical Infrastructure Protection
est. 2006

AIMS

The principal aim of IFIP WG 11.10 is to weave science, technology and policy in developing and implementing sophisticated, yet practical, solutions that will help secure information, computer and network assets in the various critical infrastructure sectors. Information infrastructure protection efforts at all levels – local, regional, national and international – will be advanced by leveraging the WG 11.10 membership's strengths in sustained research and development, educational and outreach initiatives.

SCOPES

- To identify information security challenges and implementation issues that are common (as well as unique) to infrastructure sectors.
- To elucidate the interdependencies existing between infrastructure sectors and their information security implications.
- To identify core security principles and techniques that can be applied to address problems in information infrastructure protection.
- To develop sophisticated information infrastructure protection solutions that blend scientific methods, engineering techniques and public policy.

WG11.11 – Trust Management
est. 2006

AIMS

Working Group 11.11 aims to provide a forum for cross-disciplinary investigation of the application of trust as a means of establishing security and confidence in the global computing infrastructure, recognizing trust as a crucial enabler for meaningful and mutual beneficial interactions. The working group will bring together researchers with an interest in complementary aspects of trust, from both technology oriented disciplines and the field of law, social sciences and philosophy. In this way the working group will provide the common background

necessary for advancing towards an in-depth understanding of the fundamental issues and challenges in the area of trust management in open systems.

The main membership will most likely be specialized researchers, both from universities and company laboratories. Government organizations and IFIP member societies and their members will be the main users of the results of the group.

Working Group 11.11 has a link to the area of other groups, both inside and outside IFIP and the group will seek actively for close cooperation with these groups.

SCOPE of the working group (non-exhaustive and non-exclusive):

- semantics and models for security and trust;
- trust management architectures, mechanisms and policies;
- trust in e-commerce, e-service, e-government;
- trust and privacy; (link with wg 9.6 / 11.7)
- identity and trust management; (link with wg 11.6)
- trust securing digital as well as physical assets;
- social and legal aspects of trust (link with wg 9.6 / 11.7)

WG11.12 – Human Aspects of Information Security and Assurance
est. 2010

AIMS

The Human Aspects of Information Security and Assurance Working Group seeks to promote all aspects of research that can better support and inform our use of security within information systems.

SCOPES
The scope of the WG11.12 includes any aspects that pertain to the attitudes, perceptions and behavior of people, and how human characteristics or technologies may be positively modified to improve the ease of use and level of protection provided. Indicative themes within this remit will include:

- Information security culture
- Awareness and education methods
- Enhancing risk perception
- Public understanding of security
- Usable security
- Psychological models of security software usage
- User acceptance of security policies and technologies
- User-friendly authentication methods
- Automating security functionality
- Non-intrusive security
- Assisting security administration
- Impacts of standards, policies, compliance requirements
- Organizational governance for information assurance
- Simplifying risk and threat assessment
- Understanding motivations for misuse
- Social engineering and other human-related risks
- Privacy attitudes and practices
- Computer ethics and security

It is anticipated that the activity of this Working Group will have many cross-disciplinary aspects with other groups, both inside and outside of IFIP and the group will actively seek close cooperation.

WG11.14 – Secure Engineering
est. 2013

AIMS
The Working Group 11.14 aims to provide a forum for cross-disciplinary investigation of "secure services engineering" with attention also at the software-services and system aspects. The working group will bring together researchers with an interest in several area of computer science, including, security, security engineering, service engineering, software engineering, formal methods and related fields. The WG will leverage on the experience and community developed by the NESSoS Network of Excellence (www.nessos-project.eu) on Engineering Secure Future Internet Software Services and Systems.

We can list the main aims as:

- **The creation of a long lasting research community on engineering secure services and software systems.**
- **Maintaining a research roadmap in the area of secure service engineering.**
- **Maintaining a workbench for secure service engineering tools.**
- **Contribution to education, training, dissemination.**
- **Reduction of gap between industry and research best practices.**

SCOPES

The main membership will most likely be specialized researchers, both from universities and corporate laboratories. Government organizations and IFIP member societies and their members will be the main users of the results of the group.
Working Group 11.14 has a link to the area of other groups, both inside and outside IFIP (as the ERCIM WG on security and trust management) and the group will seek actively for close cooperation with these groups.

Scope of the working group

- Security requirements engineering
  - o Emphasis on identity, privacy and trust
  - o Requirements languages for managing legislative constraints and socio-technical and economic aspects
  - o Conflicts resolution between security requirements and other requirements
  - o Privacy requirements engineering

- Secure Service Architectures and Design
  - o Reasoning about security in multi-concern design models
  - o Security design patterns
  - o Support for model-driven security dynamic adaptation
  - o Integrate security modelling in domain-specific modelling languages

- Security support in programming environments
  - o Service creation
    - Security support for service creation (by composing services or by programming new services from scratch
  - o Service execution
    - Security enforcement at runtime
  - o Middleware
    - Monitoring of business compositions
  - o Secure service programming
    - Adherence to programming principles and best practices
    - Verifiable concurrency
  - o Platform support for security enforcement
    - Secure cross domain interactions
    - Finely grained execution monitoring
    - Supporting security assurance for FI services

- Service composition and adaption
  - o Evolution of security contracts during the whole life of software

- Trustworthy market of composable services
- Assessing risk of a service compostion
- Test –bed for comparing service adaptation by contracts approaches

- Runtime verification and enforcement
  - Run-time monitoring of data flow
  - Usage control properties monitoring

- Risk and Cost-aware Secure Service Development
  - Risk and cost analysis process: towards incremental and iterative process through Secure Service Development
  - Risk composition and aggregation
  - Risk and cost evolution
  - Risk validation and integration
  - Applying formal methods to risk management
  - Runtime re-configurability of security based on risk management

- Security assurance for services
  - Early assurance
    - Step-wise refinement of security (from policies down to mechanisms)
    - Formal verification of security policies models
    - Certification and audit frameworks for scenarios involving outsourcing of services
  - Implementation assurance
    - Secure programming
    - Security testing and debugging
      - Penetration testing (specially model-based penetration testing)
      - Automatic generation of test for web applications
    - Debugging
    - Secured session management for web service security

- Quantitative security for assurance
  - Formal security metrics
  - Metrics for privacy and isolation in cloud computing
  - Validation and comparison frameworks for security metrics
  - Compositional calculation in service-oriented systems

TC 12 - Artificial Intelligence - Aims and Scopes

est. 1989, revised 1991, 2004

AIMS

- To foster the development and understanding of Artificial Intelligence and its applications worldwide.
- To promote interdisciplinary exchanges between Artificial Intelligence and other fields of information processing.
- To contribute to the overall aims and objectives and further development of IFIP as the international body for Information Processing.

SCOPES

Artificial Intelligence covers a wide range of techniques, which can be applied to a very wide range of application areas. Its subfields include (but are not restricted to) the following:

- Automated Reasoning
- Belief Revision
- Case-Based Reasoning
- Computer Vision
- Constraint Satisfaction
- Data Mining
- Evolutionary Algorithms
- Intelligent Agents
- Intelligent Planning and Scheduling
- Intelligent Robotics
- Knowledge Acquisition
- Knowledge Discovery and Data Mining
- Knowledge Engineering
- Knowledge-Based Systems
- Knowledge Management
- Knowledge Representation and Reasoning
- Machine Learning
- Machine Translation
- Model-based Reasoning
- Natural Language Processing
- Neural Nets
- Pattern Recognition
- Qualitative Reasoning
- Search
- Semantic Web
- Temporal Reasoning

WG12.1 - Knowledge Representation and Reasoning

est. 2004

AIMS

To study and develop theory and techniques for knowledge representation and reasoning.

SCOPES

The scope of the Working Group's activities includes (but is not restricted to) the following:

- Abductive Reasoning
- Inductive Reasoning
- Non-monotonic Reasoning
- Reasoning about Actions and Change
- Spatial Reasoning
- Temporal Reasoning
- Automated Reasoning
- Computational Logic
- Logic Programming
- Situation Calculus
- Production Systems
- Semantic Networks
- Frames
- Object-orientated Representation
- Bayesian Networks

WG12.2 - Machine Learning and Data Mining
est. 2003, revised 2005

AIM

To explore computer methodology and algorithms that improve automatically through experience. Applications range from data mining programs that discover general rules in large data sets, to information filtering systems that automatically learn users' interests.

SCOPES

- Concept Learning and Inductive Learning
- Association Rules
- Case-based Learning
- Artificial Neural Networks
- Bayesian Learning
- Uncertainty Learning
- Reinforcement Learning
- Evolutionary Learning
- Perceptual Learning
- Computational Learning Theory
- Population-based Learning
- Data Mining
- Application Case Study

WG12.3 - Intelligent Agents
est. 2003

AIMS

To study and develop theory and techniques for intelligent agents.

SCOPES

- Theory and agent modeling

- Agent architectures
- Agent-based software engineering
- Coordinating, cooperation and negotiation
- Evolution, adaptation and learning
- Multiple agents
- Mobile agents
- Agent-based grid computing
- Agent-based applications

WG12.4 - (joint with WG2.12, see TC2)

WG12.5 - Artificial Intelligence Applications
est. 1993, rev. 2003

AIMS

To explore the use of Artificial Intelligence techniques for applications development.

SCOPES

All areas of application in which Artificial Intelligence techniques can give benefits to users.

Techniques for application development including:

- Conceptual frameworks for application specification and design
- User interface design
- Integration of AI software and systems with conventional databases, programming languages, and operating systems
- Related research issues such as knowledge acquisition, learning, validation and implementation techniques.

WG12.6 - Knowledge Management
est. 1993, revised 2003, 2008

AIMS

- To develop advanced methods for organizing, accessing and exploiting multidisciplinary knowledge within organizations and enterprises.
- To bring together various areas of KM research and technology to meet this challenge, e.g. knowledge transfer and modeling, optimisation, natural language understanding, speech and image processing and understanding, reasoning methods, learning methods, communication methods, social aspects, complex problem solving, decision support, human-machine interaction, serious games.
- To develop technology for intelligent support of Knowledge Cultivators, e.g. intelligent knowledge navigation systems, multi modal interface, automatic translation, competency management, e- and m-activities such as learning, collaborative research and design, business, process control.
- To share worldwide experience in the above domains.

SCOPES

Methodology, technologies, processes, and systems for supporting all aspects of knowledge management as communication, collaboration, learning, innovation, decision making, investigation, embedding and archiving.

Knowledge thinking.

Knowledge Holonomy – the interplay between individual, organizational, enterprise and society levels. Cross organisational.

Technology trends include:

- Intelligent multimodal knowledge acquisition and retrieval
- Knowledge discovery
- Technology for sustainable development
- Convergence of intelligences
- Technology for Knowledge Innovation
- Human machine interaction and collaboration
- Virtual reality and Games for KM

WG12.7 – Social Networking Semantics and Collective Intelligence
est. 2010

AIMS

- To become a multidisciplinary group that searches for and studies the theoretical foundations, new paradigms, methodologies and technologies needed for the specific support by intelligent computer systems of the knowledge aspects of social processes, community-based elicitation and specification of semantics, and the use of such knowledge e.g. as linked data in applications;
- To investigate and promote the applications of such systems in science, industry, and society at large, including opportunities for standardisation;
- To meet and communicate regularly, to endorse and create scientific forums of exchange in order to achieve these aims;
- To interact productively with selected other working groups and research projects within and outside of IFIP, in particular but not limited to TC2 (Software Theory and Practice), TC5 (Information Technology Applications), TC8 (Information Systems) and other Working Groups of TC12 (Artificial Intelligence).

SCOPES

An initial but not comprehensive list of topics of study includes

- theory, formal models, e.g. ontologies, and emerging new paradigms of organized and informal communities, of social and collaborative processes, and of semantics of data and knowledge;
- elicitation of ontologies and semantic content creation in general by social processes, expertise sharing and agreement; methodologies for same;
- auto-emergence of social semantics; harvesting and mining collective intelligence from community interactions; pragmatic web;
- engineering and prototyping of supporting knowledge-based systems for collective intelligence;
- collective intelligence in linked data; evolution and quality assurance of such linked data;
- the interaction of formal semantics with informal social semantics; social web interoperability issues; modeling of situational awareness; hybrid socio-technical systems;
- identity and authentication of entities and services on the (social) semantic web; related issues of trust, privacy and security;
- implementation and exploitation of social semantics as web services; self-organizing services tailored to communities; methodologies for adoption of such services;
- scalability issues for web-sized collective intelligence;
- interoperability of heterogeneous and autonomous knowledge sources from multiple disciplines through their respective communities.

WG12.8 – Intelligent Bioinformatics and Biomedical Systems
est. 2010

AIMS

To obtain a deeper understanding of the Bioinformatics, Biomedical Systems and its Applications and help in the development of its theoretical foundations and technological underpinning, as well as its global integration from molecular analysis to clinical diagnosis.

SCOPES

The scope of the Working Group's activities includes (but is not restricted to) the following:

- Study of the formal and practical knowledge representation issues of the Bioinformatics, Biomedical Systems and its Applications.
- Design, evaluation and use of ontologies for the various layers we would like to integrate, including genome, proteins, molecular pathways and clinical diagnosis.
- Evaluation and state of the art data mining tools for inferring new information from existing and new biological and biomedical databases.
- Studies of human centred aspects specifically for the Bioinformatics, Biomedical Systems and its Applications, including discovery of early cancer stages, such as through genomic predispositions and/or functional medical imaging.
- Information extraction, automatic and semi-automatic generation of meta data.
- Advanced string technology applications to Bioinformatics, Biomedical Systems and its Applications.

WG12.9 – Computational Intelligence
est. 2011

AIMS

- To obtain a deeper understanding of Computational Intelligence and its Applications and help in the development of its theoretical foundations and technological underpinnings.

1) Novel concepts of computational Intelligence approaches and their adaptation for handling real world applications.
2) Investigation of techniques of modification of computational Intelligence approaches so as to produce more effective computational Intelligence approaches.
3) Enhancement of the computational Intelligence approaches by co-operating with classical or statistical methods.
4) Using computational Intelligence approaches for handling constrained, multi-objective and large scale optimization problems for real world applications.
5) Application of computational Intelligence approaches in real industrial applications.
6) Parallel computational Intelligence approaches for practical applications in real world.
7) Using computational Intelligence approaches for solving dynamic optimization or time-varying problems in real world.
8) The following computational intelligence approaches include, but are not limited to:
   - Neural Networks
   - Fuzzy Systems
   - Evolutionary Computation
   - Particle swarm optimization
   - Multi-agent systems

- Intelligent control systems
- Support vector machine
- Bayesian networks
- Global and constrained optimization

TC 13 - Human-Computer Interaction - Aims and Scopes

est. 1989

AIMS

To encourage development towards a science and a technology of human-computer interaction, the Technical Committee will pursue the following Aims:

- to encourage empirical research (using valid and reliable methodology, with studies of the methods themselves where necessary);
- to promote the use of knowledge and methods from the human sciences in both design and evaluation of computer systems;
- to promote better understanding of the relation between formal design methods and system usability and acceptability;
- to develop guidelines, models and methods by which designers may be able to provide better human-oriented computer systems;
- to co-operate with other groups, inside and outside IFIP, so as to promote user-orientation and "humani-zation" in system design.

SCOPES

The main orientation is toward the users, especially the non-computer-professional users, and how to improve the human-computer relationship for them.

Areas of study include:

- the problems people have with computers;
- the impact of computers upon people in both individual and organizational contexts;
- the determinants of utility, usability and acceptability;
- the appropriate allocation of tasks between computers and people;
- modelling the user as an aid to better system design;
- harmonising the computer to the characteristics and needs of the user.

While the Scope is thus set wide, with a tendency towards general principles rather than particular systems, it is recognised that progress will only be achieved through both general studies to advance theoretical understanding and specific studies on practical issues (e.g. interface design standards, software system consistency; documentation, appropriateness of alternative communication media, human factors guidelines for dialogue design, the problems of integrating multi-media systems to match user needs and organizational practices etc.).

WG13.1 - Education in HCI and HCI Curriculum

est. 1990, revised 1991

AIMS

- to improve HCI education at all levels of higher education;
- to coordinate and unite efforts to enhance the development of HCI curricula;
- to recommend fundamental structures for curricula and course materials and for their adaptation to the various national educational systems;
- to advance international recog-nition of qualifications in this field, and
- to promote the teaching of HCI

SCOPES

The scope of the Working Group will build upon existing work in IFIP member countries to include:

- the evaluation of the needs of industry to enhance the qualifications of HCI, based upon societal objectives to improve the work environment;
- the collation of existing curricula, course literature and other relevant materials developed by member societies or institutions who are contributing to their work;
- the design of recommendations and guidelines for HCI curricula at different levels of higher education, and the adaptation of the guidelines to the cultural situation within which the respective education systems are based.

WG13.2 - Methodologies for User-Centered Systems Design
est. 1992

AIMS

The principal objective of the Working Group will be:

- to foster research, dissemination of information and good practice in the methodical application of HCI to software engineering.

This objective decomposes into two sub-goals:

- to encourage research into and development of HCI principles, methods and techniques applied to system design and integrated with principles, methods and tools in software engineering, and
- to encourage research into human action within the system development process and to promote knowledge transfer from such studies into the construction of integrated HCI-SE design methods.

SCOPES

- evaluation and synthesis of HCI specification and design methods;
- implications of cognitive psychology for the design of human-computer interfaces;
- evaluation and study of different approaches to design delivery:
  cognitive models, design rationales, task artifact cycles, engineering principles, development methods;
- methods and techniques of human factors in software engineering as practised in industrial environments;
- human behaviour in software development, i.e. cognitive studies of software engineering;
- cooperative work techniques applied to software development.

WG13.3 - Human-Computer Interaction and Disability
est. 1992, revised 1994, 2001

AIMS

The principal objectives of the Working Group will be:

- to make HCI designers aware of the needs of people with disabilities;
- to recommend guidelines for the design of HCI to facilitate the use of computers by people with disabilities;
- to monitor the latest developments in the design of HCI and their impact on accessibility and usability;

- to encourage the development of information systems and complementary tools which permit the adaptation of the human interface for each specific user.

SCOPES

There are over 500 million people with disabilities in the world. Social exclusion and many other problems often result from their situation. It is recognised that developments in IT/HCI can often help with problems, for example to maximise choice and integration. However, there is also a danger that such developments can lead to the further exclusion of this user group if they are not designed from the beginning with universal access as an aim.

Working Group 13.3 intends to make designers of information systems and complementary tools aware of the needs of this group in order to encourage the development of more appropriate tools for access and usability. As a result, systems will become universally accessible, and the market for them will increase.

Specifically the scope of WG13.3 will include the following activities:

- coordination and exchange of information with other relevant bodies;
- collaboration with institutions interested in this field of HCI and disability;
- focussed HCI orientation to enable people with disabilities to use information systems and complementary tools for positive advantage.

WG13.4 - (joint with WG2.7; see TC2)
est. 1975, revised 1987, 1991

WG13.5 – Human Error in Resilience, Reliability, Safety
est. 1998, revised 2014

AIMS

This working group aims to support practitioners, regulators and researchers to develop leading edge techniques in resilience engineering, hazard analysis and safety engineering of interactive computer-based systems. Particular emphasis will be on the role of human error both in the development and in the operation of complex processes and on techniques that can be easily integrated into existing system engineering practices. Specifically, the aims are:

- to provide a framework for studying human factors that relate to systems failure;
- to provide a forum for practitioners, regulators and researchers interested in the 'human contribution' to major accidents and incidents;
- to identify leading edge techniques for the development of safety-critical interactive systems and integrate them with existing systems engineering techniques;
- to support and guide international accreditation activities in the area of safety-critical systems.
- to address system design within its whole socio-technical and environmental context.

SCOPES

To build on existing work in IFIP member countries in the following areas:

- techniques for analysing human, managerial and organisational factors that relate to the occurrence of accidents;
- the integration of human factors concerns into risk analysis and assessment;
- the integration of human factors concerns into systems engineering techniques for interactive safety-critical systems development;
- the ergonomics of human-computer interaction with safety-critical applications;

- the role of human error both in the development and in the operation of complex processes.

WG13.6 - Human-Work Interaction Design
est. 2005

AIMS

The aims of the HWID working group are:

- To encourage empirical studies and conceptualisations of the interaction among humans, their variegated social contexts and the technology they use both within and across these contexts.
- Promote the use of knowledge, concepts, methods and techniques that enables user studies to procure a better apprehension of the complex interplay between individual, social and organisational contexts and thereby a better understanding of how and why people work in the ways they do.
- Promote a better understanding of the relationship between work-domain based empirical studies and iterative design of prototypes and new technologies.
- Establish a network of researchers, practitioners and domain/subject matter experts working within this field.

Thus on an overall level the working group aims at establishing relationships between extensive empirical work-domain studies and HCI design.

SCOPES

To provide the basis for an improved cross-disciplinary co-operation and mutual inspiration among researchers, but it will also lead to a number of new research initiatives and developments, as well as to an increased awareness of HWID in existing HCI educations. Complexity will be a key notion in the working group, it is not a priori defined or limited to any particular domains. A main target of the work group is the analysis of and the design for the variety of complex work and life contexts found in different business.
Technology is changing human life and work contexts in numerous, multi-faceted ways:

- Interfaces between collaborating individuals; advanced communication networks
- Small and large-scale distributed systems
- Multimedia and embedded technologies
- Mobile technologies and advanced "intelligent" robots
- With this evolution, toward new ways of working, has followed an intensive demand for techniques and technologies that address contemporary issues connected to:
- Communication, collaboration, and problem solving
- Large information spaces, variability, discretion, learning, and information seeking

This evolution toward new ways of working and living must be embraced as a challenge to current knowledge and practice and one, moreover, which presents exciting new opportunities in:

- Epistemology, with knowledge acquisition, knowledge creation, management and knowledge sharing
- The symbiosis of users and contexts of use, between work and life-quality and with both professional and individual development.

It is a challenge to design applications that support users of technology in complex and emergent organisational and work contexts, and thus opportunities exist to focus on methods, theories, tools, techniques and prototype design on an experimental basis.
Under these circumstances, the primary question is less whether we choose to study the use of a particular computer application or prefer, instead, to conduct bottom up empirical experiments of work contexts. The new problem is how we can understand, conceptualise and design for the complex and emergent contexts in which human life and work are now embroiled. This problem calls for cross disciplinary, empirical and theoretical

approaches that focus on Human-Work Interaction Design, meaning that the technology itself and particularly the design and use of technologies mediates the interaction between humans and specific work contexts.

WG13.7 – Human - Computer Interaction & Visualization (HCIV)
est. 2008

AIMS

- To establish a study and research program that will combine both scientific work and practical applications in the fields of Human – Computer Interaction and Visualization.
- To promote the development of "effective" visualizations that benefit from the capabilities and functionalities of the human visual system, e.g. visual perception and other cognitive abilities.
- To promote the development of practical applications, e.g. in engineering, which benefit from the newly developed concepts and which provide the necessary fields for evaluation.
- To integrate several additional aspects of further research areas, such as Scientific Visualization, Data mining, Information Design, Computer Graphics, Cognition Sciences, Perception Theory, or Psychology, into this approach.

Thus the WG will provide a creative work environment for performing innovative research at the interface between Human – Computer Interaction and Visualization.

WG13.8 – Interaction Design and Children
est. 2008, migrated from SIG 13.1 2014, revised 2015

AIMS and SCOPES

- To support and develop the research, practice and education capabilities of HCI in institutions and organisations based around the world taking into account their diverse local needs and cultural perspectives;
- To promote application of interaction design research, practice and education to address the needs, desires and aspirations of people across the developing world;
- To research and promote interaction design practice in cross-cultural settings, with a special focus on new and emerging economies;
- To develop links between the HCI community in general and other relevant communities involved in international development and cross-cultured aspects of ICT development.

WG13.9 – Interaction Design and Children
est. 2013

The focus of the work within Working Group 13.9 is on promoting high quality coordinated research in child computer interaction and in interaction design with children.

AIMS

This working group aims to support practitioners, regulators and researchers to develop the study of interaction design and children across international contexts. Specifically it will seek – as a working group – to develop a mature tested set of methods and practices that this academic and practitioner base can use. It will aim:

- To promote high quality research in child computer interaction and in interaction design with children
- To provide an accessible international forum and information site for researchers interested in HCI and Interaction
  Design where the users are children
- To coordinate and manage events for IDC researchers and practitioners including, but not limited to, the annual IDC conference and the IDC workshops.

SCOPES

To build on existing work in IFIP member countries in the following areas:

- The development and refinement of methods for engaging with children in the design of interactive technologies
- The development and refinement of methods for engaging with children in the evaluation of interactive technologies
- The role of children as participants in Interaction Design
- Designing for children from all cultures, with all abilities, talents and economics.

WG13.10 – Human-Centered Technology for Sustainability
est. 2015

AIMS

This working group aims:

- to promote research, design, development, evaluation of human-centred technology to encourage sustainable use of resources in various domains. These technologies would include interaction techniques, interfaces and visualizations for applications, tools, games, services and devices.

- to bring together and stimulate exchanges between, researchers, practitioners, and policy-makers from across different disciplines involved in sustainability through regular events. These disciplines would include computer science, engineering, design, social sciences, etc.

- to coordinate publication and dissemination of related research output, information, policies, etc.

TC 14 - Entertainment Computing - Aims and Scopes

est. 2002, rev. 2006

AIMS

To encourage computer applications for entertainment and to enhance computer utilization in the home, the technical committee will pursue the following aims:

- to enhance algorithmic research on board and card games
- to promote a new type of entertainment using information technologies
- to encourage hardware technology research and development to facilitate implementing entertainment systems, and
- to encourage non-traditional human interface technologies for entertainment.

SCOPES

(1) Algorithm and strategy for board and card games
-- algorithms of board and card games
-- strategy control for board and card games
-- level setup for game and card games

(2) Novel entertainment using ICT
-- network-based entertainment
-- mobile entertainment
-- location-based entertainment
-- mixed reality entertainment

(3) Audio
-- music informatics for entertainment
-- 3D audio for entertainment
-- sound effects for entertainment

(4) Entertainment human interface technologies
-- haptic and non-traditional human interface technologies
-- mixed reality human interface technologies for entertainment

(5) Entertainment robots
-- ICT-based toys
-- pet robots
-- emotion model and rendering technologies for robots

(6) Entertainment systems
-- design of entertainment systems
-- entertainment design toolkits
-- authoring systems

(7) Theoretical aspects of entertainment
-- sociology, psychology and physiology for entertainment
-- legal aspects of entertainment

(8) Video game and animation technologies
-- video game hardware and software technologies
-- video game design toolkits
-- motion capture and motion design
-- interactive story telling
-- digital actors and emotion model

(9) Interactive TV and movies
-- multiple view synthesis
-- free viewpoint TV
-- authoring technologies

(10) Edutainment
-- entertainment technologies for children's education
-- open environment entertainment robots for education

WG14.1 – Digital Storytelling
est. 2002, rev. 2006

SCOPES

Storytelling is one of the core technology of entertainment. Especially with the advancement of information and communication technologies (ICT), new type of entertainment called video games have been developed where interactive story development is the key that makes those games really entertaining. At the same time, however, it has not been studied well what is the difference between the interactive storytelling and the conventional storytelling. Also as the development of interactive storytelling need a lot of time and human power, it is crucial to develop technologies for automatic or semiautomatic story development. The objective of this working group is to study and discuss these issues.

WG14.2 – Entertainment Robot
est. 2004, rev. 2006

SCOPES

Robot is becoming one of the most appealing entertainment. New entertainment robot and/or pet robot is becoming popular. Also, from theoretical point of view, compared with computer graphics based characters/animations, robot is an interesting research object as it has physical entity. Taking these into considerations, it was decided at the SG16 annual meeting that a new working group on entertainment robot is to be established.

WG14.3 – Theoretical Basis of Entertainment
est. 2003, rev. 2006

AIMS

- For the benefit of society, to promote visibility and to increase the impact of research and development in the entertainment computing area, especially in the fields defined in the scope of this working group.
- To promote quality and relevance of academic and industrial research and development in the entertainment computing area.
- To promote ethical behavior and appropriate recommendations or guidelines for research related activities, for example, submission and selection of publications, organization of conferences, allocation of grants and awards, and evaluation of professional merits and curricula.
- To promote cooperation between researchers and with other established bodies and organizations pursuing the above aims.
- To contribute to assessing the scientific merits and practical relevance of proposed approaches for entertainment technology and applications.

SCOPES
Although there are huge entertainment industries already such as video games, toys, movies, etc., little academic interest has been paid on such questions as what is the core of entertainment, what is the technologies of entertainment can be applied to other areas such as education, learning and so on. The main objective of this WG is to study these issues.

WG14.4 – Entertainment Games
est. 2005, rev. 2006, 2012

AIMS

To research and develop computing techniques for the improvement of computer games and other forms of computer entertainment.

SCOPES

The scope of this workgroup includes, but is not limited to the following applications, technologies and activities.

Applications:

- Analytical games (e.g., Chess, Go, Poker)
- Commercial games (e.g., Action games, Role-playing games, Strategy games)
- Mobile games (e.g., Mobile phones, PDA's)
- Interactive multimedia (e.g., Virtual reality, Simulations)

Technologies:

- Search Techniques
- Machine Learning
- Reasoning
- Agent Technology
- Human-Computer Interaction

WG14.5 - Social and Ethical Issues in Entertainment Computing
est. 2005, rev. 2006

AIMS

1. Foster the ethical design, development, implementation, applications and use of entertainment computing.
2. Encourage surveys and studies on social, ethical and cultural aspects of entertainment computing.
3. Develop methodologies for studying social, ethical and cultural implications of entertainment computing.
4. Establish a global platform for interaction, exchange, joint initiatives and co-operation between such groups as:

    - the end users of entertainment computing
    - industrial developers and designers of entertainment computing
    - policy, decision making, social and consultative bodies
    - academics and scientists.

SCOPES

The social and ethical implications of entertainment computing including:

- actual and potential human usefulness or harm of entertainment computing
- social impact of these technologies
- developments of the underlying infrastructure
- rationale in innovation and design processes
- dynamics of technology development
- ethical development
- cultural diversity and other cultural issues
- education of the public about the social and ethical implications of entertainment computing, and of computer professionals about the effects of their work.

WG 14.5 explicitly cares about the position of, and the potentials for, vulnerable groups such as children, the less-educated, disabled, elderly and non-employed people, cultural minorities, unaware users and others.

WG14.6 – Interactive TeleVision (ITV)
est. 2007

AIMS

- To promote visibility and to increase the impact of research and development in the ITV field
- To bring together interdisciplinary approaches to ITV research and development issues (e.g. content production, computer science, media studies)
- To encourage cooperation between researchers and other established bodies and organizations, through the development of joint project proposals
- To facilitate the development of suitable academic and practical teaching programs

SCOPES

- Alternative content distribution (mobile TV, peer-to-peer TV, IPTV)
- Interactive storytelling, user contributed content
- Interactive and personalized advertising systems
- Applications for t-commerce, t-learning, t-health, entertainment
- Ethical, regulatory and policy issues
- Interoperability of middleware, standards, multimedia metadata
- Authoring, production and virtual reality systems
- Content management, digital rights management
- Multimedia, graphics, broadcast and video technology
- Content enriched communication services, video conferencing
- Personalization, user modeling, intelligent user interfaces
- Usability, accessibility, universal access, multimodal interaction

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WG14.7 – Art and Entertainment
est. 2007

AIMS

- To explore the way art and cinema aesthetics can play a role in different areas of computer science.

- One of its goals is to modify computer science by the application of the wide range of definitions and categories normally associated by making art and cinema.
- To go beyond the usual definition of art and cinema aesthetics in computing, which most often refers to the formal, abstract qualities of such structures – a beautiful proof, or an elegant diagram.
- To research the broader spectrum of aesthetics – from abstract qualities of symmetry and form to ideas of creative expression and pleasure – in the context of computer science.
- To prove the assumption behind art and cinema aesthetic computing that the field of computing will be enriched if it embraces all of aesthetics.

SCOPES

The influence of technology and scientific innovation is profoundly changing how we express ourselves. Arts and Entertainment is a new field that represents the exciting convergence of technology with the established design discipline. The Media Arts and Cinema offers a comprehensive approach to design that encourages innovation by media artists, scientists and engineers. The working group will pursue the following activities:

WG14.8 – Serious Games
est. 2012

AIMS

To promote serious games research, development and assessment, and to encourage and facilitate wider adoption and use of serious games, the working group will pursue the following activities:

- to establish a shared understanding and arena for current and emerging serious games
- to connect interdisciplinary approaches/groups and encourage cooperation and collaboration in research and development projects
- to encourage investigation of entertainment in its various forms in serious games (e.g. stimulating, thought provoking, pleasurable, etc.)
- develop methodologies to inform design, development and assessment of serious games
- facilitate the development of suitable academic and practical teaching programs

SCOPES

- video games, simulations, virtual environments, interactive art/media, mixed reality/media for purpose
- interactive narrative and storytelling (e.g. to participate in scenarios and social situations and make ethical, moral and strategic judgments and decisions)
- virtual heritage (e.g. to experience cultures, customs and values of past and present civilizations)
- mobile platforms for serious games
- digital development tools, authoring environments and game engines
- development of methodologies & guidelines for design, development and assessment
- incorporation of learning/pedagogical theories
- social, cultural and ethical impact/considerations of these technologies

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WG14.9 – Game Accessibility
est. 2015

AIMS
To promote software and hardware research on game accessibility
To provide, encourage and facilitate the use of methods and tools for inclusion in the game industry
To establish a shared understanding of current and emerging requirements for users with special needs in the

field of video games
To connect interdisciplinary approaches/groups and encourage cooperation and collaboration in research and development projects
To develop methodologies and guidelines for game designers and game developers for accessible games
To build a common knowledge base, making it available for practitioners and for academics/lecturers, for teaching purposes.

SCOPES

Games, video games and entertainment objects, in their broadest sense
Simulations and virtual/augmented or mixed reality
Transmedia and crossmedia
Mobile phones, tablets and emerging platforms and devices
Development tools, game engines
Social, cultural and ethical impact and considerations

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Prof. Dr. Kai RANNENBERG, DE
Mobile Business & Multilateral Security,
Goethe University Frankfurt
Theodor-W.-Adorno-Platz 4, D-60629
Frankfurt/Main,
Phone +49 69 798 34701 Mobile +49 160 90515478
e-mail: Kai.Rannenberg@m-chair.de
URL: www.m-chair.net
e-mail: kai.rannenberg@m-chair.de

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