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IFIP SECRETARIAT

HOFSTRASSE 3

A-2361 LAXENBURG
AUSTRIA, EUROPE

Head of Secretariat: 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 SECRETARIAT

HOFSTRASSE 3

A-2361 LAXENBURG
AUSTRIA, EUROPE

Head of Secretariat:	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

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 Council 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

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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 52 organizations as Full Members, 2 Corresponding Members and 4 Affiliate 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 Treasurer, a Secretary and eight Trustees who together form the IFIP Council.

Congresses and Major Conferences

IFIP's flagship event is its World Computer Congress, currently held biannually. The 20th IFIP World Congress was held in in Milan, Italy from 7 to 10 September (www.wcc2008.org). The 21st IFIP World Computer Congress will be held in Brisbane, Australia from 20 to 23 September (www.wcc2010.org).

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 Science and Business Media
101 Philip Drive
Norwell, MA 02061, U.S.A
Tel: +1 781 681 - 0607
Fax: +1 781 871 - 7507
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.

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 Head of the Secretariat, 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 WITFOR 2009

World Information Technology Forum

26 – 28 August 2009

Ha Noi, Viet Nam

ICT for sustainable development

Under this theme the Government of the Socialist Republic of Viet Nam, the Viet Nam Association for Information Processing and IFIP are jointly organizing the fourth WITFOR conference.

The purpose of the conference is to help implement information development strategies and projects in developing countries. The aim of WITFOR is to examine different initiatives on effective, context sensitive development and use of ICT applications, access to quality relevant information, and the development of "fair use principles" in the Internet Age. In particular WITFOR events are intended to:

- help put ICT-enabled development initiatives on the agenda of different organizations, governmental bodies, and groups currently involved in information and communications technologies.
- work with different groups to ensure that the issue of ICT diffusion and sustainable effective use is on the agenda of senior policy makers and political leaders.
- assist international organizations and donor agencies to build issues of the spread of ICTs and access to information into their loan and funding programs with adequate financial and institutional allocations.
- develop guidelines on these issues and advise governments, to formulate and follow the best strategy for the use of ICT in order to achieve global ICT-equity.

This fourth WITFOR is expected to welcome about 1500 delegates from around 70 countries, including ministers, senior policy-makers, academics, NGOs, ICT experts and the private ICT sector.

Preparatory work for the programme is done by eight commissions on Agriculture, Building the infrastructure, Economic opportunities, Education, E-government, Environment, Health, Social ethical and legal issues.

www.witfor.org

Government of the Socialist Republic of Viet Nam

International Federation for Information Processing (IFIP)

Vietnam Association for Information Processing (VAIP)

Date: July 27 – 31, 2009. Website: http://www.wcce2009.org/

The **9th IFIP World Conference on Computers in Education (WCCE 2009)** is an IFIP event hosted by the Brazilian Computer Society - SBC (Sociedade Brasileira de Computação), and organised by UFRGS (Universidade Federal do Rio Grande do Sul), UFSC (Universidade Federal de Santa Catarina), IDESTI (Instituto de Capacitação, Pesquisa e Desenvolvimento Institucional em Gestão Social de Tecnologia de Informação). This is the first WCCE to be held in South America ever.

Education and technology for a better world is the main theme for WCCE 2009. The conference will enlighten and explore different perspectives of this theme, covering all levels of formal education as well as informal learning arenas, societal aspects and challenges that are faced by developing countries.

This is a conference with strong international participation and brings together professionals from all continents working in the field of Education and Information and Communication Technologies (ICT).

WCCE is the biggest event serie in TC 3. Up to now the following conferences have been arranged:

2005: Stellenbosch, South Africa

2001: Copenhagen, Denmark
1995: Birmingham, UK
1990: Sydney, Australia
1985: Norfolk, USA
1980: Lausanne, Switzerland.
1976: Marseille, France.
1971: Amsterdam, Netherlands.

The Proceedings from these conferences are probably the best history of how computers in a wide sense have been used in education.

Programme chair:
Sindre Røsvik, Norway.
Vice-chair of TC 3.
E-mail: sinro@online.no

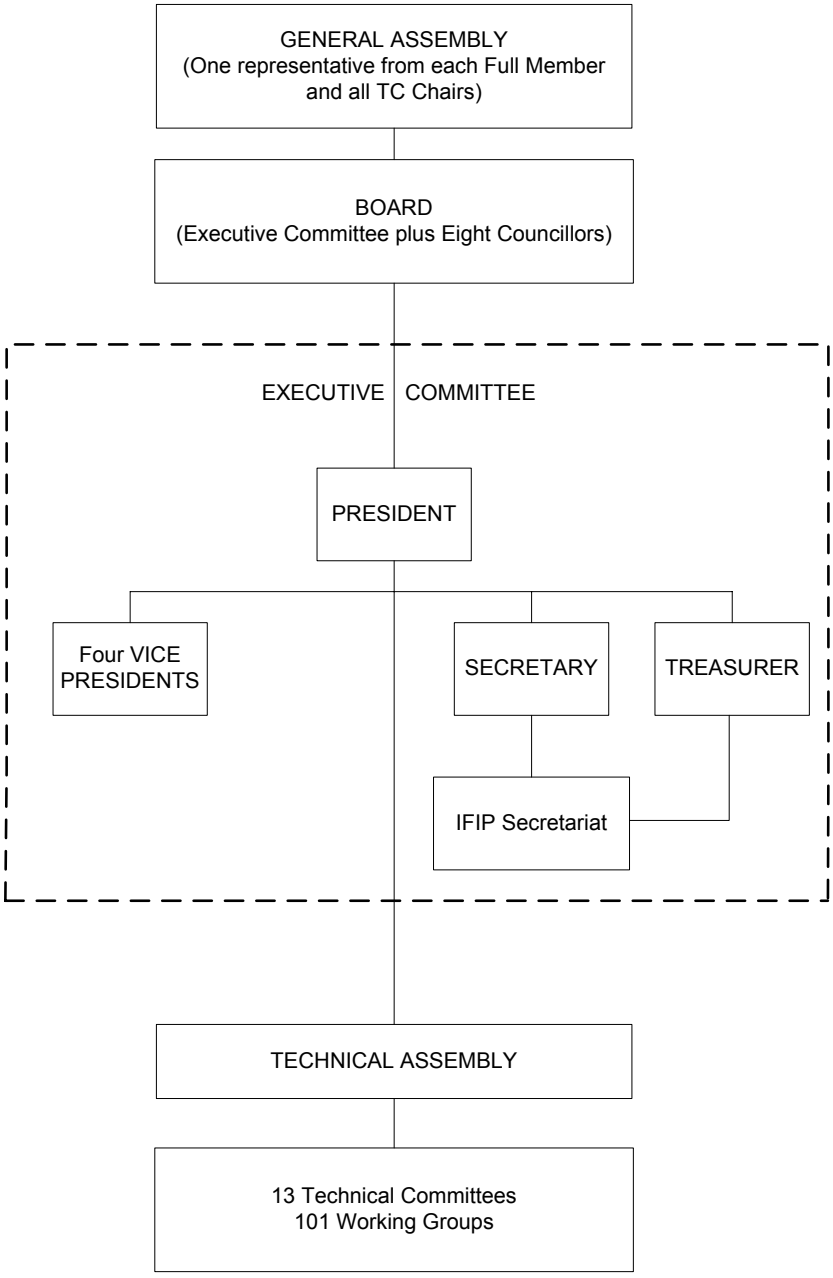
Organising Committee:
Rosa Maria Vicari (Chair)
E-mail: rosa@inf.ufrgs.br

Raul Sidnei Wazlawick (Co-Chair)
E-mail: raul@inf.ufsc.br

Key dates:

- 31th December 2008 - Submission of papers and contributions
- 28th February 2009 - Notification of acceptance
- 15th March 2009 - Final confirmation to speakers
- 30th April 2009 - Submission of final version of paper for publishing
- 30th April 2009 - Submission of presentation material
- 27th - 31st July 2009 - Conference dates

IFIP ORGANISATION CHART



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Raymond Morel	CH	2004/2010
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Lalit Sawhney	IN	2007/2010

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: bobillier@tele2.ch

Prof. Ashley W. **GOLDSWORTHY**
386 Wishart Road
WISHART, Queensland 41
Australia
Tel. +61 7 334944
Fax +61 7 3849 6436
e-mail: ashleyg@ozemail.com.au

Mr. Aage **MELBYE**
Morlenesvej 11
DK-2840 HOLTE, Denmark
Tel. +45 4542 2912
e-mail: melbye@tdcadsl.dk

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.
N-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: bsendov@bas.bg

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

Prof. Heinz **ZEMANEK**
Technische Universitaet Wien - ICT
Gusshausstrasse 25 - 29/384
A-1040 VIENNA, Austria
Tel. +43 1 58801 38426
Fax +43 1 58801 38499
e-mail:zemanek@ict.tuwien.ac.at

Full Members

Society	Representative
ANDORRA Centre Nacional d'Informatica d'Andorra (CNIA) Av. Santa Coloma, 91 ANDORRA LA VELLA, Andorra Tel. +376 822400 Fax +376 828218 e-mail: dbastida@andorra.ad URL: http://www.andorra.ad/	Mr. Daniel **BASTIDA** c/o Centre Nacional d'Inf. d'Andorra (CNIA) Av. Santa Coloma, 91 ANDORRA LA VELLA, Andorra Tel. +376 822400 Fax +376 828218 e-mail: dbastida@andorra.ad
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: kim.denham@acs.org.au URL: http://www.acs.org.au/	Mr. Christopher **AVRAM** Monash University Faculty of Information Technology 900 Dandenong Road CAULFIELD EAST VIC 3145, Australia Tel. +61 3 9903 2196 Fax +61 3 9903 1077 e-mail: chris.avram@infotech.monash.edu.au
AUSTRIA Austrian Computer Society (OCG) Wollzeile 1-3 A-1010 VIENNA, Austria Tel. +43 1 512 0235 Fax +43 1 512 02359 e-mail: ocg@ocg.or.at URL: http://www.ocg.or.at/	Prof. A Min **TJOA** Vienna University of Technology Institute of Software Technology Favoritenstr. 9 -11/188 A-1040 VIENNA, Austria Tel. +43 1 58801 18801 Fax +43 1 58801 18899 e-mail: tjoa@ifs.tuwien.ac.at URL: http://www.ifs.tuwien.ac.at/~tjoa/
BELGIUM Fed. des Assoc. Informat. de Belgique FAIB-FBVI De Volderstraat 46 BE-9800 DEINZE, Belgium Tel. +32 2 629 16 20 e-mail: Olivier.Braet@vub.ac.be URL: http://www.bfia.be/	Prof. Dirk **DESCHOOLMEESTER** Muinkkaai 61 BE-9000 GENT Belgium Tel. +32 9 223 79 58 e-mail: dirk.deschoolmeester@ugent.be
BOTSWANA Botswana Information Technology Society (BITS) Private Bag BO 262 GABORONE, Botswana e-mail: btts@4Site.bw URL: http://www.bits.bw	Ms. Alicia **RAMARIBANA** Ministry of Communications Science & Technology Government Computer Bureau Private Bag 00414, GABORONE, Botswana Tel. +267 361 2604 Fax +267 391 4261 e-mail: aramaribana@gov.bw
BRAZIL Brazilian Computer Society - SBC Instituto de Informatica - UFRGS C.P. 15064 CEP 91501-970 PORTO ALEGRE, Brazil Tel. +55 51 33086835 Fax +55 51 33087142 e-mail: comunicacao@sbc.org.br URL: http://www.sbc.org.br/	Prof. Ricardo A. **REIS** Instituto de Informatica Universidade Federal do Rio Grande do Sul Av. Bento Goncalves, 9500 Campus do Vale - Bloco IV Caixa postal 15064 91501-970 PORTO ALEGRE, Brazil Tel. +55 51 33089500 Fax +55 51 33087308 e-mail: reis@inf.ufrgs.br

BULGARIA
Bulgarian Academy of Sciences
1, "15th November" Street
SOFIA 1040, Bulgaria
Tel. +359 2 989 8446
Fax +359 2 981 6629
e-mail: boyanov@bgcict.acad.bg
URL: http://www.acad.bg/ifip

Prof. Kiril **BOYANOV**
Central Laboratory for Parallel Processing
Institute for Parallel Processing
Acad. G. Bonchev Str., Bl.25 A
BG-1113 SOFIA, Bulgaria
Tel. +359 2 979 6617
Fax +359 2 870 7273
e-mail: boyanov@acad.bg

CANADA
Canadian Information Processing Society (CIPS)
5090 Explorer Drive, Suite 801
MISSISSAUGA, ON. L4W 4T9, Canada
Tel. +1 905 602 1370
Fax +1 905 602 7884
e-mail: info@cips.ca
URL: http://www.cips.ca/

Mr. George **BOYNTON**
Habitat '67
901-2600 Pierre Dupuy Ave.
MONTREAL, QUEBEC, H3C 3R6
Canada
Tel. +1 514 894 0882
Fax +1 514 861 5800
e-mail: george@cips.ca

CHINA
Chinese Institute of Electronics
Prof. M. Zhou, Deputy Secretary General
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: zhoumq@public3.bta.net.cn
URL: http://www.cie-china.org

Prof. Lingling **SUN**
Hangzhou Dianzi University
Chinese Institute of Electronics-CIE
HANGZHOU
China
Tel. 86 571 869 15166
e-mail: sunll@hdu.edu.cn

CLEI
CENTRO LATINOAMERICANO DE ESTUDIOS INFORMATICA
CLEI Executive Secretary
Dr. Rodrigo Santos
Dep.Ing. Electrica y Computadoras
Universidad Nacional del Sur
Avda. Alem 1253
8000, Bahia Blanca, Argentina
Tel. +54 291 4595181
Fax: +54 291 4595154
e-mail: ierms@criba.edu.ar
URL: http://www.clei.org

Prof. Ricardo **BAEZA-YATES**
Universidad de Chile
Departamento de Ciencias de la Computacion (DCC)
Av. Blanco Encalada 2120
SANTIAGO 6511224, Chile
Tel. +56 2 689 2736
Fax +56 2 689 5531
e-mail: rbaeza@dcc.uchile.cl

CLEI Member countries:Argentina (FM), Bolivia, Brazil (FM), Chile (FM), Colombia, Ecuador, Paraguay, Peru, Uruguay, Venezuela, Panama, Mexico.

CROATIA
Croatian Information Technology Society - CITS
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**
Croatian Chamber of Economy
Director of IT Sector
Rooseveltov trg 2
10000 ZAGREB, Croatia
Fax +385 1 4561 520
e-mail: mfrkovic@hgk.hr

CYPRUS
Cyprus Computer Society
PO Box 27038
1641 NICOSIA, Cyprus
Tel. +357 22 754474
Fax +357 22 767349
e-mail: ccs@spidernet.com.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 PRAGUE 8 - Liben
Czech Republic
Tel. +420 2 660 5 3901
Fax +420 2 858 5789
e-mail: cski@utia.cas.cz
URL: 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 111560
Fax +45 33 931580
e-mail: dansk-it@dansk-it.dk
URL: http://www.dansk-it.dk

Mr. Peter **BOLLERSLEV**
Røjlevangen 40
DK-2630 TAASTRUP, Denmark
Tel. +45 43 527758
e-mail: peter@bollerslev.com

ETHIOPIA
Ethiopian Information Technology
Professionals Association EITPA
ALTA Building 2nd floor to 7th floor
Mexico Square
ADDIS ABABA, Ethiopia
Tel. +251 11 550 9417
Fax +251 11 533 3368
e-mail: eitpa_et@yahoo.com
URL: http://www.eitpa.org

Mr. Bogale **DEMISSIE**
Ethiopian Information Technology
Professionals Association EITPA
ALTA Building 2nd floor to 7th floor
Mexico Square
ADDIS ABABA, Ethiopia
Tel. +251 11 550 9417
Fax +251 11 533 3368
e-mail: datavision@ethionet.et

FINLAND
Finnish Information Processing Association
Lars Sonckin kaari 12
FI-02600 ESPOO, Finland
Tel. +358 20 741 9898
Fax +358 20 741 9889
e-mail: natalia.ritonen@ttlry.fi
URL: http://www.ttlry.fi/

Prof. Olli **MARTIKAINEN**
The Research Institute of the
Finnish Economy (ETLA)
Lönnrotinkatu 4 B
FIN-00120 Helsinki
Tel. +358-9-609900
Fax +358-9-601753
e-mail: martikainen@etla.fi

FRANCE
Societe des electriciens et des electroniciens - SEE
11-17 Rue Hamelin
F-75783 PARIS CEDEX 16
Tel. +33 1 56903700
Fax +33 1 56903719
e-mail: see@see.asso.fr
URL: http://www.see.asso.fr

Dr. Jean-Claude **LAPRIE**
LAAS-CNRS
7 Ave. du Colonel Roche
F-31077 TOULOUSE CEDEX
France
Tel. +33 561 336270
Fax +33 561 336411
e-mail: jean-claude.laprie@laas.fr

GERMANY
Gesellschaft für Informatik e.V. (GI)
Ahrstr. 45
D-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. Klaus **BRUNNSTEIN**
University of Hamburg
Faculty f. Informatics
Vogt-Koelln-Str. 30
D-22527 HAMBURG, Germany
Tel. +49 40 42883 2406
Fax +49 40 42883 2226
e-mail: brunnstein@informatik.uni-hamburg.de

GREECE
Greek Computer Society (GCS)
37 Stournari St.
GR-10682 ATHENS, Greece
Tel. +30 210 3301307
Fax +30 210 3301893
e-mail: ska@aegean.gr
URL: http://www.epy.gr

Prof. Sokratis **KATSIKAS**
Univ.of the Aegean
Dept. of Information & Communication Syst. Engineering
30, Voulgaroktonou St.
GR-11472 ATHENS, Greece
Tel. +30 210 649 2112
Fax +30 210 649 2204
e-mail: ska@aegean.gr

HUNGARY
John v. Neumann Computer Society (JvNCS)
Bathori u. 16
HU-1054 BUDAPEST, Hungary
Tel. +36 1 472-2730
Fax +36 1 472-2739
e-mail: titkarsag@njszt.hu
URL: http://www.njszt.hu

Dr. Balint **DOMOLKI**
National Council for Communications and Information Technology
Dob-u 76.
HU-1073 BUDAPEST, Hungary
Tel. +36 1 322-9626
Fax +36 1 322-9629
e-mail: domolki@nhit.hu

INDIA
Computer Society of India (CSI)
122, T.V. Industrial Estate
S.K. Ahire Marg.
WORLI-MUMBAY 400 030, India
Tel. +91 22 2494 3422
Fax +91 22 2495 0543
e-mail: csi@bom2.vsnl.net.in
URL: http://www.csi-india.org

Mr. Lalit **SAWHNEY**
1032, Sobha Jasmine
Sarjapur Outer Ring Road
Bellandur
BANGALORE 560 103
India
Tel. +91 80 2583 7614
mobile: +91 99862 17406
e-mail: lalit.sawhney@ifip.org

IRELAND
Irish Computer Society
Crescent Hall
Mount Street Crescent
DUBLIN 2, Ireland
Tel. +353 1 644 7840
Fax +353 1 662 0224
e-mail: info@ics.ie
URL: http://www.ics.ie/

Mr. Declan **BRADY**
c/o Irish Computer Society
Crescent Hall
Mount Street Crescent
DUBLIN 2, Ireland
Tel. +353 1 644 7840
Fax +353 1 662 0224
e-mail: declan.brady@services.fujitsu.com

ITALY
Associazione Italiana per l' Informatica ed il Calcolo Automatico (A.I.C.A.)
Piazzale R. Morandi, 2
I-20121 MILAN, Italy
Tel. +39 02 760 14082
Fax +39 02 760 15717
e-mail: aica@aicanet.it
URL: http://www.aicanet.it

Prof. Arrigo L. **FRISIANI**
Universita di Genova - DIST
Via all'Opera Pia 13
I-16145 GENOVA, Italy
Tel. +39 010 353 2983
Fax +39 010 353 2154
e-mail: arrigo.frisiani@unige.it

JAPAN
Information Processing Society of Japan (IPSJ)
4F Kagaku-Kaikan (Chemistry Hall)
1-5 Kanda-Surugadai, Chiyoda-ku
TOKYO 101-8307, Japan
Tel. +81 3 3518 8374
Fax +81 3 3518 8375
e-mail: ayukawa@ipsj.or.jp
URL: http://www.ipsj.or.jp/

Prof. Tadao **SAITO**
Toyota InfoTechnology Center
6-6-20 Akasaka, Minatoku
TOKYO 107-0052, Japan
Tel. +81 3 5561 8200
Fax +81 3 5561 8260
e-mail: saito@jp.toyota-itc.com

KENYA
Computer Society of Kenya
P.O. Box 70180
00400 Tom Mboya
NAIROBI, Kenya
Tel: +25420 3871836, +25420 3871848
Fax +25420 3871822
e-mail: mail@cskonline.org
URL: http://www.cskonline.org

Mr. Waudo **SIGANGA**
Chairman
The Computer Society of Kenya
P.O. Box 70180
00400 Tom Mboya
NAIROBI
Kenya
e-mail: mail@cskonline.org

Rep. of KOREA
The Korean Institute of Information Scientist 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://kiss.or.kr/english/index_eng.htm

Prof. Dong Yoon **KIM**
Ajou University
College of Information and Communication San 5
Wonchun-dong, Paldal-ku
SUWON, Rep.of Korea 442-749
Tel. +82 31 219 2632
Fax +82 31 219 1614
e-mail: dykim@ ajou.ac.kr

LITHUANIA
Lithuanian Computer Society - LIKS
A. Gostauto 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. Eugenijus **TELESIUS**
CEO, ECDL Lithuania
Managing Director, ITI
Member of the Board, LIKS
S. Daukanto Str. 25
LT-44249 KAUNAS, Lithuania
Tel. +370 37 75 01 02
Fax +370 37 40 73 40
e-mail: et@ecdl.lt

MALAYSIA
Malaysian National Computer Confederation
Unit 916, 9th Floor, Block A
Damansara Intan No. 1
Jalan SS20/27
MY-47400 PETALING JAYA, Malaysia
Tel. +603 7118 3040
Fax +603 7118 2930
e-mail: info@mncc.com.my
URL: http://www.mncc.com.my

Dr. Raja M. **MALIK**
President MNCC
Unit 916, 9th Floor, Block A
Damansara Intan 1, Jalan SS20/27
Selangor Darul Ehsan
47400 PETALING JAYA, Malaysia
Tel. +603 7118 3040
Fax +603 7118 2930
e-mail: rmalik49@yahoo.com.my

NETHERLANDS
NGI
Platform voor ICT-professionals
Postbus 1058
NL-3860 BB NIJKERK
The Netherlands
Tel. +31 33 247 3427
Fax +31 33 246 0470
e-mail: info.ngi@ngi.nl
URL: http://www.ngi.nl/

Mr. Leon A. M. **STROUS**
NGI
Gistel 20
NL-5707 GV HELMOND
The Netherlands
Tel. +31 20 524 2748
Fax +31 492 548636
e-mail: strous@iae.nl

NEW ZEALAND
New Zealand Computer Society, Inc.
PO Box 10044
WELLINGTON, New Zealand
Tel. +64 4 473 1043
Fax +64 4 473 1025
e-mail: nzcs@nzcs.org.nz
URL: http://www.nzcs.org.nz

Mr. Don **ROBERTSON**
New Zealand Computer Society, Inc.
PO Box 10044
WELLINGTON, New Zealand
Tel. +64 4 473 1043
Fax +64 4 473 1025
e-mail: president@nzcs.org.nz

NIGERIA
Nigeria Computer Society (NCS)
Plot 10 Otunba Jobi Fele Way
Behind MKO Garden
Alausa Ikeja
LAGOS, Nigeria
Tel. +234 1 774 4600
e-mail: ncs@ncs.org.ng
URL: http://www.ncs.org.ng/

Dr. Abiodun **BADA**
The George Washington University
Dept. of Engineering and Systems Eng.
1776 G Street, NW, Suite 130
WASHINGTON, DC 20052, USA
Tel. +1 202 994 1240
Fax +1 202 994 4606
e-mail: aobada@gwu.edu

NORWAY
Norwegian Computer Society (NCS)
Youngstorget
N-0028 OSLO, Norway
Tel. +47 22 36 48 80
Fax +47 22 36 37 01
e-mail: dnd@dnd.no
URL: http://www.dnd.no/

Ms. Gro **GREGERSEN**
DND Servicekontoret AS
PO Box 8874
Youngstorget
N-0028 OSLO, Norway
Tel. +47 22 36 4881
Fax +47 22 36 3701
e-mail: gro.gregersen@dnd.no

OMAN
Sultan Qaboos University
P.O. Box 50
MUSCAT 123, Sultanate of Oman
Tel. +968 513 333
Fax +968 514 455
URL: http://www.squ.edu.om

Dr. Ahmed **AL-NAAMANY**
Sultan Qaboos University
College of Engineering
Information Engineering Department
P.O. Box 33
AL-KHOD-123, Sultanate of Oman
Tel. +968 515 363
Fax +968 513 454
e-mail: naamany@squ.edu.om

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: andrzej.legocki@pan.pl
URL: http://www.pan.pl

Prof. Henryk **KRAWCZYK**
Faculty of Electronics
Telecommunications and Informatics
ul. Gabriela Narutowicza 11/12
80-952 GDANSK WRZESZCZ, Poland
Tel. +48 58 347 10 18
Fax +48 58 348 61 25
e-mail: hkrawk@eti.pg.gda.pl

PORTUGAL
APDSI
Associação para a Promoção e
Desenvolvimento da Sociedade da Informação
Madan Parque – PCTAS, Edificio VI
Campus da Caparica, Monte de Caparica
PT-2829-516 CAPARICA, Portugal
Tel. +351 212 949 606
Fax +351 212 949 607
e-mail: secretariado@apdsi.pt
URL: www.apdsi.pt

Prof. Augusto Julio Domingues **CASACA**
INESC Lisboa
Rua Alves Redol, 9 – Apartado 13069
PT-1000-029 LISBOA
Portugal
Tel. +351 213 100 233
Fax +351 213 145 843
e-mail: augusto.casaca@inesc.pt

RUSSIA
The Russian Academy of Sciences
c/o Secretary General
Vavilov st. 40, CCRAS
RU-119333 MOSCOW GSP-1, Russia
Tel. +07 095 1352489
Fax +7 8499 135 61 59
e-mail: wcan@ccas.ru
URL: http://www.ccas.ru

Prof. Yury G. **EVTUSHENKO**
The Russian Academy of Sciences
Director of Dorodnicyn Computing Centre
Vavilov st. 40
RU-119333 MOSCOW GSP-1
Russia
Tel. +7 8499 135 00 20
e-mail: evt@ccas.ru

SERBIA
JISA – Union of ICT societies Serbia
Zmaj Jovina 4
SCG 11000 BEOGRAD
Serbia
Tel. +381 11 2620 374
Fax +381 11 2626 576
e-mail: jisa@jisa.org.yu
URL: http://www.jisa.org.yu

Mr. Djordje **DUKIC**
JISA – Union of ICT societies Serbia
Zmaj Jovina 4
SCG 11000 BEOGRAD
Serbia
Tel. +381 11 2620 374
Fax +381 11 2626 576
e-mail: dukic@jisa.org.yu

SINGAPORE
Singapore Computer Society
53/53A Neil Road
SINGAPORE 088891, Singapore
Tel. +65 226 2567
Fax +65 226 2569
e-mail: jennifer.ong@scs.org.sg
URL: http://www.scs.org.sg/

Mr. Wilson **TAN**
Singapore Computer Society
53/53A Neil Road
SINGAPORE 088891, Singapore
Tel. +65 226 2567
Fax +65 226 2569
e-mail: wilson_tan@singpost.com

SLOVAKIA
Slovak Society for Computer Science
FMFI UK, Mlynska dolina
SK-842 48 BRATISLAVA, Slovak Rep.
Tel. +421 2 65426635
Fax +421 2 65427041
e-mail: sscs@informatika.sk
URL: http://www.informatika.sk

Dr. Igor **PRIVARA**
Institute of Informatics & Statistics
Dubravska 3
SK-842 21 BRATISLAVA,
Slovak Rep.
Tel. +421 2 593 79292
Fax +421 2 547 91463
e-mail: privara@infostat.sk

SLOVENIA
Slovenian Society INFORMATIKA
Vozarski pot 12
SI-1000 LJUBLJANA, Slovenia
Tel. +386 1 2415 294
Fax +386 1 2415 344
e-mail: info@drustvo-informatika.si
URL: http://www.drustvo-informatika.si/

Mr. Niko **SCHLAMBERGER**
Slovenian Society INFORMATIKA
Vozarski pot 12
SI-1000 LJUBLJANA, Slovenia
Tel. +386 1 2415 294
Fax +386 1 2415 344
e-mail: niko.schlamberger@gov.si

SOUTH AFRICA
The Computer Society of South Africa
P.O. Box 1714
Halfway House
1685 GAUTENG
South Africa
Tel. +27 11 315 1319
Fax +27 11 315 2276
e-mail: info@cssa.org.za
URL: http://www.cssa.org.za/

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

SPAIN
ATI Asociación de Técnicos de Informática
Via Laietana, 46
ES-08003 BARCELONA
Spain
Tel. +34 93 412 52 35
Fax +34 93 412 77 13
e-mail: secregen@ati.es

Dr. Ramon **PUIGJANER**
Universitat de les Illes Balears
Departament de Ciencies
Matematiques i Informatica
Carretera de Valldemossa km 7.5
ES-07071 PALMA DE MALLORCA
Spain
Tel. +34 9711 73288
Fax +34 9711 73003
e-mail: putxi@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 4713336
Fax +94 11 250 8009
e-mail: csslsec@cssl.lk
URL: http://www.cssl.lk

Dr. Prasanna **LOKUGE**
President of
The Computer Society of Sri Lanka CSSL
Professional Centre
275/75 Stanley Wijesundera Mawatha
COLOMBO 7, Sri Lanka
Tel. +94 11 4713336
Fax +94 11 250 8009
e-mail: president@cssl.lk

SWEDEN
Swedish Information Processing Society
Box 45 153
S-104 30 STOCKHOLM, Sweden
Tel. +46 8 506 40400
Fax +46 8 506 40415
e-mail: rolf.berndtson@dfs.se
URL: http://www.dfs.se

Dr. Dipak **KHAKHAR**
Dept. of Informatics
University of Lund
Ole Romersveg 6
S-22363 LUND, Sweden
Tel. +46 46 222 8028
Fax +46 46 222 4528
e-mail: dipak.khakhar@ics.lu.se

SWITZERLAND
ICTSWITZERLAND
Information and Communication Technology
Klösterlistutz 8
CH-3013 BERN, Switzerland
Tel. +41 31 560 66 60
Fax +41 31 560 66 61
e-mail: info@ictswitzerland.ch
URL: http://www.ictswitzerland.ch

Prof. Raymond **MOREL**
Direction of SEM (Educational Foresight)
Case Postale 3144
CH-1211 GENEVA 3, Switzerland
Tel. +41 22 3883300
Fax +41 22 3883301
e-mail: raymond.morel@tecfa.unige.ch

SYRIA
Syrian Computer Society (SCS)
P.O. Box 33492
DAMASCUS, Syria
Tel. +963 11 373 6155
Fax +963 11 373 7558
e-mail: info@scs.org.sy
URL: http://www.scs.org.sy

Prof. Rakan **RAZOUK**
Syrian Computer Society (SCS)
P.O. Box 33492
DAMASCUS, Syria
Tel. +963 11 373 6155
Fax +963 11 373 7558
e-mail: rrazouk@scs-net.org
URL: http://www.scs.org.sy

THAILAND
Thailand Internet Association
Srisakdi Charmonman IT Center
Assumption University Bangna Campus
Bangna-Trad Km. 26, Bang Sao Thong
SAMUTPRAKARN 10540
Thailand
Tel. +662 723 2891
Fax +662 723 2892
e-mail: charm@ksc.net.th

Prof. Srisakdi **CHARMONMAN**
Srisakdi Charmonman IT Center (9th Floor)
Assumption University Bangna Campus
Bangna-Trad Km. 26, Bang Sao Thong
SAMUTPRAKARN 10540
Thailand
Tel. +662 723 2891
Fax +662 723 2892
e-mail: charm@ksc.au.edu

UNITED KINGDOM
The British Computer Society (BCS)
c/o Ms. Florence Leroy
1st Floor, Block D
North Star House
North Star Avenue
SWINDON SN2 1FA, U.K.
Tel. +44 1793 417 514
Fax +44 1793 417 444
e-mail: florence.leroy@hq.bcs.org.uk
URL: http://www.bcs.org

Dr. Roger G. **JOHNSON**
9 Stanhope Way
Riverhead
SEVENOAKS, Kent TN13 2DZ, U.K.
Tel. +44 207 6316709
Fax +44 207 6316727
e-mail: r.johnson@bcs.org.uk

USA
Association for Computing Machinery (ACM)
c/o Ms. Lillian Israel, Director of Membership
2 Penn Plaza, Suite 701
NEW YORK, NY 10121-0701, U.S.A.
Tel. +1 212 869 7440
Fax +1 212 944 1318
e-mail: israel@acm.org
URL: http://www.acm.org

Prof. Albert J. **TURNER**
2024 Westview Point
SENECA, SC 29672-2436
U.S.A.
Tel. +1 864 882 7509
e-mail: turner@cs.clemson.edu

IEEE Computer Society
1828 L. Street N.W.
Suite 1202
WASHINGTON, DC 20036-5104, U.S.A.
Tel. +1 202 371 0101
Fax +1 202 728 9614
e-mail: amkelly@computer.org
URL: http://computer.org

Prof. Gerald L. **ENGEL**
University of Connecticut, Stamford
Dept.of Computer Science & Engineering
1, University Place
STAMFORD, CT 06901-2315, U.S.A.
Tel. +1 203 251 8431
Fax +1 203 251 8592
e-mail: g.engel@computer.org

VIETNAM
VAIP
Vietnam Association for Information Processing
1 Han Thuyen St.
Hai Ba Trung Dist.
HANOI
Vietnam
Tel. +84 4 8211725
Fax +84 4 8211708
e-mail: vaip@vnn.vn
URL: http://www.vaip.org.vn

Mr. Nguyen **LONG**
Secretary General VAIP
Vietnam Association for Information Processing
1 Han Thuyen St.
Hai Ba Trung Dist.
HANOI
Vietnam
Tel. +84 4 8211725
Fax +84 4 8211708
e-mail: long.ng@vnn.vn

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: membership@csz.org.zw
URL: http://www.csz.org.zw/about.htm

Mr. Lawrence **GUDZA**
GB Computers
Block A, Delken Complex
Mt. Pleasant Business Park
Mt. Pleasant
HARARE, Zimbabwe
Tel., Fax +263 4 369407/408/410
e-mail: ldgudza@gbcomput.co.zw

Ex-Officio Members

- All Technical Committee Chairs

Corresponding Members

Society	Representative
ARGENTINA SADIO Uruguay 252 - 2nd Floor, D 1015 BUENOS AIRES, Argentina Tel. +54 11 4371 5755 Fax +54 11 4372 3950 e-mail: informacion@sadio.org.ar URL: http://www.sadio.org.ar	Ms. Cecilia **de BERDICHEVSKY** General Paz 8, 15th floor, A AVELLANEDA 1780 Prov. de Buenos Aires, Argentina Tel. +54 11 4222 6359 Fax +54 11 4222 4043 e-mail: cecily48@ciudad.com.ar
ICELAND The Icelandic Society for Information Processing Laugavegi 178 IS-105 REYKJAVIK, Iceland Tel. +354 553 2460 Fax +354 520 7171 e-mail: sky@sky.is URL: http://www.sky.is	Prof. Anna **KRISTJANSDOTTIR** Iceland University of Education v/Stakkahlio IS-105 REYKJAVIK, Iceland Tel +354 563 3800 Fax +354 563 3833 e-mail: ak@khi.is

Affiliate Members

Society	Representative
CEPIS Council of European Professional Informatics Societies Avenue Roger Vandendriessche 18/9 BE-1150 BRUXELLES, Belgium Tel. +32 02 772 18 36 Fax +32 02 772 82 51 e-mail: secretary@cepis.org URL: http://www.cepis.org	Mr. Declan **BRADY** c/o Irish Computer Society Crescent Hall Mount Street Crescent DUBLIN 2, Ireland Tel. +353 1 644 7840 Fax +353 1 662 0224 e-mail: declan.brady@services.fujitsu.com
IMIA International Medical Informatics Association Dr. N. Lorenzi 5782-172 Street EDMONTON, Alberta T6M 1B4, Canada Tel. +1 780 489 4531 Fax +1 780 489 3290 e-mail: nancy.lorenzi@vanderbilt.edu URL: http://www.imia.org	Prof. Hiroshi **TAKEDA** Osaka University Hospital Department of Medical Information Sciences 2-15 Yamada-oka OSAKA 565-0871 Japan e-mail: takeda@hp-info.med.osaka-u.ac.jp

SEARCC
South East Asia Regional Computer Confederation
SEARCC Secretariat
c/o Computer Society of Sri Lanka
Professional Centre
275/75 Stanley Wijesundera Mawatha
COLOMBO 7, Sri Lanka
Tel. +94 11 259 2762
Fax +94 11 250 8009
e-mail: sg@searcc.org
URL: http://www.searcc.org/

Mr. Yasa R. **KARUNARATNE**
Secretary General
SEARCC Secretariat
c/o Computer Society of Sri Lanka
Professional Centre
275/75 Stanley Wijesundera Mawatha
COLOMBO 7, Sri Lanka
Tel. +94 777 760821
Fax +94 11 250 8009
e-mail: sg@searcc.org

VLDB
The Very Large Data Bases Endowment
c/o Prof. J. MYLOPOULOS
Dept.of Computer Science
University of Toronto
6 King's College Rd., rm. 283
TORONTO, ON M5S 1A4, Canada
Tel. +1 416 978 5180
Fax +1 416 978 1455
e-mail: jm@cs.toronto.edu
URL: http://www.vldb.org/

Prof. Erich **NEUHOLD**
GMD IPSI
Dolivostr. 15
D-64293 DARMSTADT, Germany
Tel. +49 6151 869 802
Fax +49 6151 869 818
e-mail: neuhold@darmstadt.gmd.de

IFIP TECHNICAL COMMITTEES

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

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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.

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TC 1 (FOUNDATIONS OF COMPUTER SCIENCE) est. 1989 as SG14 / approved in 9/96 as TC 1

AIMS

1. 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;
2. 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.

SCOPE

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

- frontiers, laws, and limits of information processing;
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- 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.

URL: http://www.kb.ecei.tohoku.ac.jp/IFIP-TC1/

Chair

Prof. Michael G. HINCHEY, US
Department of Computer Science
Loyola College in Maryland
4501 N. Charles Street
BALTIMORE, MD 21210
USA
Tel. +1 410 617 1899
e-mail: mike.hinchey@usa.net

AR	Joos Heintz*	FR	Catuscia Palamidessi**	NL	P. van Emde Boas
AT	Werner Kuich*	FR	Vangelis Paschos**	NL	Jan van Leeuwen**
AU	Peter D. Eades*	FR	J. Sakarovitch**	NL	Grzegorz Rozenberg**
BG	Blagovest Sendov*	GB	C.A.R. Hoare***	PL	J. Blazewicz*
BR	Imre Simon*	GB	Robin Milner***	PL	Andrzej Tarlecki***
CA	Thomas Maibaum	GB	Don Sannella*	PT	José de Barros*
CA	Nicola Santoro**	GB	Vladimiro Sassone**	PT	Amilcar Sernadas**
CH	Jose Rolim*	GB	Jim Woodcock**	RS	Miroljub Dugić*
CLEI	Ricardo Baeza-Yates*	GR	Nikolaos Missirlis*	SI	Vladimir Batagelj*
CN	Huimin Lin*	GR	Paul Spirakis**	SK	Branislav Rovan*
CZ	Jozef Gruska*	HK	Xiaotie Deng*	TH	Srisakdi Charmonman*
DE	Wilfried Brauer*	HU	Zoltan Esik*	US	Constance Heitmeyer*
DE	Ernst W. Mayr**	IT	Giorgio Ausiello*	US	D.S. Johnson (ACM)*
DE	Uwe Nestmann**	IT	Alberto Bertoni**	US	John C. Mitchell (ACM)**
DK	Mogens Nielsen*	IT	Ugo Montanari**	US	Michael O. Rabin***
ES	Josep Diaz-Cort*	JP	Naoki Kobayashi*	US	David Johnson (ACM)**
FI	Arto Salomaa*	NL	Jos C. M. Baeten***	US	Leslie G. Valiant***
FR	Maurice Nivat*				

ex-officio members: WG Chairs
*) TC1 representative from an IFIP Member Society
**) Member recommended by TC1
***) Distinguished Fellow member

WG 1.1 - 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.

SCOPE

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.

URL: http://www.cs.columbia.edu/cacnet

Chair
Prof. Henryk WOZNIAKOWSKI
Columbia University
Dept. of Computer Science
502 Computer Sc. Building
1214 Amsterdam Avenue
NEW YORK, NY 10027-7003 U.S.A.
Tel. +1 212 939 7050
Fax: +1 212 666 0140
e-mail: henryk@cs.columbia.edu
or onk62@hydra.mimuw.edu.pl

Secretary
Prof. Arthur G. WERSCHULZ
Columbia University
Dept. of Computer Science
NEW YORK, NY 10027, U.S.A.
Tel. +1 212 636 6325
Fax +1 212 581 1284 at Fordham Univ.
e-mail: agw@cs.columbia.edu

AT	Harald Niederreiter
CN	Gen Sun Fang
DE	K.H. Borgwardt
DE	S. Graf
DE	S. Heinrich
DE	Marek Karpinski
DE	P. Mathe
DE	K. Meer
DE	E. Novak
DE	K. Ritter
DE	W. Schmidt
DE	H. Strauss
DE	K. Wilderotter
IT	R. Tempo
PL	B.Z. Kacewicz
PL	M. Kowalski
PL	J. Kuczynski
PL	L. Plaskota
RU	Dima Yu Grigoriev
RU	A.S. Nemirovsky
RU	S.V. Pereverzev
RU	A. Sukharev
RU	V.N. Temlyakov
RU	N. Vakhania
US	D. Donoho
US	M. Kon
US	P. Nelson
US	A. Papageorgiou
US	S. Smale
US	Joseph F. Traub

WG 1.2 - Descriptional Complexity est. 1992

AIMS

- to promote research in all aspects of descriptional complexity through conferences, publications, and more in-formal means of scientific interaction;
- to promote interaction and the exchange of information across traditional disciplinary boundaries;
- to provide a point of contact for all researchers in all disciplines interested in descriptional complexity and its applications.

SCOPE

All aspects of descriptional complexity, both theory and application. These aspects include:

- generalized descriptional complexity measures and their properties, including resource-bounded complexity, structural complexity, hierarchical complexity, trade-offs in succinctness, and the complexity of sets, languages, grammars, automata, etc.;
- algorithmic and other descriptional theories of randomness;
- the use of descriptional randomness and associated descriptional complexity measures in computational complexity, economy of description, cryptography, information theory, probability, and statistics;

- descriptional complexity measures for inductive inference and prediction, and the use of these measures in machine learning, computational learning theory, computer vision, pattern recognition, statistical inference, and neural networks.

URL: http://psc.informatik.uni-frankfurt.de/ifip-wg1.2/

Acting Chair
Dr. Chandra M.R. KINTALA
Director, Motorola India Research Labs.
Bagmane Tech Park, 66/1,
Plot# 05, C V Raman Nagar
IN-BANGALORE 560 093
Karnataka, India
Tel. +91 80 2601 6600
Fax +91 80 2534 5101
e-mail: kintala@motorola.com

Vice-Chair
Prof. Helmut JUERGENSEN
University of Western Ontario
Department of Computer Science
Middlesex College
LONDON, Ontario, N6A 5B7
Canada
Tel. +1 519 661 3560
Fax +1 519 661 3515
e-mail: helmut@csd.uwo.ca

Secretary
Ms. Bettina SUNCKEL
University of Frankfurt
Computer Science Dept.
School of Biological and Computing Sciences
Robert-Mayer Str. 11-15
DE-60054 FRANKFURT, Germany
Tel. +49 69 798 28419
Fax +49 69 798 28334
e-mail: sunckel@em.informatik.uni-frankfurt.de

AT	Walter Bucher
AU	P. Davies
AU	J. Quinlan
CA	Fahiem Bacchus
CA	C. Campeanu
CA	Tao Jiang
CA	Ming Li
CA	K. Salomaa
CA	J. Shallit
CA	Derick Wood
CA	S. Yu
CZ	Jozef Gruska
CZ	Alicia Kelemenova
DE	Norbert Blum
DE	H. Bordihn
DE	Jürgen Dassow
DE	Joachim Dengler
DE	Günter Hotz
DE	Juraj Hromkovic
DE	M. Kappes
DE	Frank Niessner
DE	H. Petersen
DE	B. Reichel
DE	H. Schmitz
DE	Uwe Schoening
DE	Helmut Seidl
DE	Wolfgang Thomas
DE	Klaus Wagner
DE	Andreas Weber
DE	Detlef Wotschke
ES	Jose Balcazar
ES	Josep Diaz-Cort
ES	C. Martin-Vide
ES	J. Sempere
FI	Pekka Orponen
GB	Colin Blakemore
HU	Imre Csiszar
HU	E. Csuhaj-Varju
HU	Laszlo Gerencer
IL	A.N. Trahtman
IT	S. Crespi Reghizzi
IT	C. Mereghetti
IT	G. Pighizzini
IT	M. Pradella
JP	K. Hashiguchi
JP	A. Ito
JP	N. Takahashi
JP	Osamu Watanabe
JP	Kenjii Yamanishi
NL	Grzegorz Rozenberg
NL	Peter A. van der Helm
NL	Michiel van Lambalgen
NL	Paul Vitanyi
NZ	C. Calude
PL	A.W. Mostowski
PL	J. Neumann
RO	V. Mitrana
RO	G. Paun
RU	Vladimir A. Uspensky
US	Eric Allender
US	Charles H. Bennett
US	Manuel Blum
US	Alexander Botta
US	Peter Cheeseman
US	Tom Cover
US	Karel Culik
US	Byron Dom
US	Andrej Ehrenfeucht
US	Michael Fisher
US	Joseph Ford
US	Peter Gacs
US	Jonathan Goldstine
US	Juris Hartmanis
US	David Haussler
US	Steven Homer
US	Harry Hunt
US	Oscar Ibarra
US	Neil Immerman
US	John Kieffer
US	G.A. Kiraz
US	Ker-I Ko
US	Hing Leung
US	Leonid A. Levin
US	L. Longpre
US	Jack Lutz
US	Albert R. Meyer
US	Mike Pazzani
US	Bala Ravikumar
US	Jorma Rissanen
US	Daniel Rosenkranz
US	Walter Savitch
US	J. Seiferas
US	Michael Sipser
US	Ray Solomonoff
US	Richard E. Stearns
US	Larry J. Stockmeyer
US	Leslie G. Valiant
US	J. Wheeler
US	W. Zurek
ZA	Y. Velinov

WG 1.3 - 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.

SCOPE
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.

URL: http://www.fiadeiro.org/jose/IFIP-WG1.3

Chair
Prof. Jose Luiz FIADEIRO
University of Leicester
Dept. of & Computer Science
University Road
LEICESTER LE1 7RH, UK
Tel. +44 116 252 3907
Fax +44 116 252 3915
e-mail: jose@fiadeiro.org

Secretary
Prof. Christine CHOPPY
Univ. Paris Nord 13
Lab.d'Informatique de Paris-Nord
(L.I.P.N.)
Institut Galil'ee
Av. J.-B. Clement
FR-93430 VILLETANEUSE France
Tel: +33 1 4940 3590
Fax +33 1 4826 0712
e-mail: christine.choppy@lipn.univ-paris13.fr

BE	Pierre-Yves Schobbens	ES	Fernando Orejas	GB	Vladimiro Sassone
CA	Thomas Maibaum	FR	Michel Bidoit	IT	Fabio Cadducci
DE	Hartmut Ehrig	FR	Dominique Duval	IT	Andrea Corradini
DE	Rolf Hennicker	FR	Dominique Mery	IT	Ugo Montanari
DE	Hans-Jörg Kreowski	GB	Reiko Heckel	JP	Kokichi Futatsugi
DE	Till Mossakowski	GB	Alexander Kurz	NL	Bart P.F. Jacobs
DE	Peter Padawitz	GB	Peter D. Mosses	PL	Andrzej Tarlecki
DE	Lutz Schroeder	GB	Dirk Pattinson	US	Jose Meseguer
DE	Martin Wirsing	GB	Mark Ryan	US	Dusko Pavlovic
DZ	Mohamed Bettaz	GB	Markus Roggenbach	US	Grigore Rosu
ES	Narciso Marti-Oliet	GB	Don Sannella		

WG 1.4 - Computational Learning Theory est.1995

AIMS
To promote the field of computational learning theory and to establish close cooperation between existing groups working in geographically separated areas. To support steps helping to bridge theory and applications.

SCOPE
- Computational and complexity-theoretic aspects of learning
- Investigation of formal models of learning
- The teacher/learner and other learning paradigms
- Neural networks and learning
- Kolomogorov complexity approach to learning
- Application of the computational and complexity approach to learning to the design of learning systems

URL: http://www.cs.umd.edu/~smith/ifip.html

Chair
Prof. Arun SHARMA
Queensland University of Technology
2 George Street
GPO Box 2434
BRISBANE QLD 4001, Australia
e-mail: arun.sharma@qut.edu.au

Vice-Chair
Mr. Paul VITANYI
CWI & Univ. of Amsterdam
Kruislaan 413
NL-1098 SJ AMSTERDAM, Netherlands
Tel.+ 31 20 592 4124
Fax+ 31 20 592 4199
e-mail: paul.vitanyi@cwi.nl

DE	Janos Jantke	IT	Nicolo Cesa-Bianchi	US	Y. Freund
DE	Marek Karpinski	JP	Setsuo Arikawa	US	David Haussler
DE	Kathrina Morik	JP	Kenjii Yamanisi	US	S. Kwek
GB	Martin Anthony	LV	R. Freivalds	US	R. Schapire
GB	V. Vovk	US	Erik Baum	US	Eduardo Sontag
IL	Shai Ben-David	US	Tom Cover	US	Leslie G. Valiant

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

AIMS

To support the development of cellular automata theory and their applications (especially in parallel computing, in the study of complex systems, in physics, biology, artificial life, ...). To pursue the design and utilization of cellular automata machines.

SCOPE

Cellular automata as models of parallelism, complex systems, dynamic systems, interactive behavior, physical systems and models of biological systems. Cellular automata machines.

Chair

Prof. Jarkko KARI
University of Turku
Mathematics Department
FI-20014 TURKU
Finland
Tel. +358-2-333 5616
Fax +358-2-333 6595
e-mail: jkari@utu.fi

Vice-Chair

Prof. Kenichi MORITA
Hiroshima University
Department of Information Engineering
Graduate School of Eng.
JP-739-8527 HIGASHI-HIROSHIMA, Japan
Tel. +81 82 424 7700
Fax +81 82 422 7195
e-mail: morita@iec.hiroshima-u.ac.jp

Secretary

Prof. Nicolas OLLINGER
Aix-Marseille Université, CNRS LIF, CMI
39 rue Joliot-Curie
FR-13453 MARSEILLE Cedex 13
France
Tel. +33 4 91 11 36 21
Fax +33 4 91 11 36 02
e-mail: Nicolas.Ollinger@lif.univ-mrs.fr

BE	Andre Barbe	DE	Roland Vollmar	JP	Katsunobu Imai
BR	Pedro de Oliveira	DE	Thomas Worsch	JP	Chuzo Iwamoto
CA	Henryk Fuks	FR	Marianne Delorme	JP	Hidenosuke Nishio
CA	Anna Lawniczak	FR	Bruno Durand	JP	Ferdinand Peper
CA	Marcus Pivato	FR	Nazim Fates	JP	Hiroshi Umeo
CA	Burton Voorhees	FR	Enrico Formenti	NL	Grzegorz Rozenberg
CH	Bastien Chopard	FR	Maurice Margenstern	NL	Peter Sloot
CH	Marco Tomassini	FR	Jacques Mazoyer	PL	Danuta Makowiec
CL	Eric Goles	FR	Michel Morvan	PL	Pawel Siwak
CL	Alejandro Maass	FR	Victor Poupet	US	Nino Boccera
CL	Andres Moreira	FR	Veronique Terrier	US	James Crutchfield
CZ	Petr Kurka	FR	Laurent Vuillon	US	Oscar Ibarra
DE	Andreas Deutsch	GB	Andy Adamatzky	US	Klaus Sutner
DE	Martin Kutrib	IT	Stefania Bandini	US	Tommaso Toffoli
DE	Andreas Malcher	IT	Gianpiero Cattaneo	US	Andrew Wuensche
DE	Guentcho Skordev	IT	Giancarlo Mauri		

WG 1.6 - Term 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.

SCOPE

- 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.

URL: http://rewriting.loria.fr/IFIP-WG1.6/

Chair
Prof. Claude KIRCHNER
Directeur du centre de Recherche
INRIA Bordeaux – Sud-Ouest
Bâtiment A29
351 cours de la Libération
FR-33405 TALENCE Cedex
France
Tel. +33 5 2457 4001
Fax +33 5 2457 4025
e-mail: claude.kirchner@inria.fr

Vice-Chair
Prof. Jürgen GIESL
RWTH Aachen
Fachgruppe Informatik
Ahornstr. 55
DE- 52074 AACHEN
Germany
Tel. +49 241 80 21230
Fax +49 241 80 22217
e-mail: giesl@informatik.rwth-aachen.de

Secretary
Dr. Laurent VIGNERON
LORIA - University of Nancy 2
Campus Scientifique
B.P. 239
FR-54506 VANDOEUVRE LES NANCY
France
Tel. +33 3 8359 3020
Fax +33 3 8327 8319
e-mail: laurent.vigneron@loria.fr

AT	Aart Middeldorp	FR	Jean-Pierre Jouannaud*	NL	Jan Willem Klop
AU	Bernhard Gramlich	FR	Helene Kirchner	NL	Vincent van Oostrom
DE	Jürgen Avenhaus*	FR	Pierre Lescanne	NL	Femke van Raamsdonk
DE	Franz Baader	FR	Michael Rusinowitch	NL	Hans Zantema
DE	Klaus Madlener	IL	Nachum Dershowitz	TW	Jieh Hsiang
DE	Tobias Nipkow	IT	Corrado Boehm	US	Leo Bachmair
DE	Friedrich Otto	IT	Maria Paola Bonacina	US	Daniel J. Dougherty
DE	Manfred Schmidt-Schauss	IT	Ugo Montanari*	US	Deepak Kapur
ES	Salvador Lucas	JP	Tetsuo Ida	US	Christopher Lynch
ES	Robert Nieuwenhuis	JP	Mitsuhiro Okada	US	Jose Meseguer
FR	Siva Anantharaman	JP	Masako Takahashi-Horai	US	Paliath Narendran
FR	Hubert Comon	JP	Yoshihito Toyama	US	David Plaisted
FR	Gerard Huet	NL	Henk Barendregt*		

*) honorary member

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.

SCOPE
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.

URL: http://www.dsi.unive.it/~focardi/IFIPWG1_7/

Chair
Catherine A. MEADOWS
Naval Research Laboratory
Code 5543
WASHINGTON, DC 20375
USA
Tel. +1 202 767 3490
Fax +1 202 404 7942
e-mail: meadows@itd.nrl.navy.mil

AU	Colin Boyd	GB	Steve Schneider	US	Martin Abadi
BE	Guy Leduc	IE	Simon Foley	US	Li Gong
BE	Jean-Jacques Quisquater	IL	Raphael Yahalom	US	Joshua Guttman
DE	Dieter Gollman	IT	Pierpaolo Degano	US	Jonathan K. Millen
DE	Jan Jürjens	IT	Roberto Gorrieri	US	John C. Mitchell
FR	Dominique Bolignano	IT	Riccardo Focardi	US	Paul Syverson
GB	Gavin Lowe	NL	Sandro Etalle	US	Moti Yung
GB	Peter Ryan				

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.

SCOPE
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.

Chair
Prof. Luca ACETO
Reykjavik University
School of Computer Science
Ofanleiti 2
IS-103 REYKJAVIK
Iceland
Tel. +354 599 6419
Fax +354 599 6201
e-mail: luca@ru.is

Vice-Chair
Prof. Wan FOKKINK
Vrije Universiteit Amsterdam
Dept. of Computer Science
De Boelelaan 1081a
NL-1081 HV AMSTERDAM
The Netherlands
Tel. +31 20 598 7735
Fax +31 20 598 7653
e-mail: wanf@cs.vu.nl

Secretary
Prof. Anna INGÓLFSDÓTTIR
Reykjavik University
School of Computer Science
Ofanleiti 2
IS-103 REYKJAVIK
Iceland
e-mail: annaing@hi.is

AR	Pedro D'Argenio
AU	Rob van Glabbeck
AU	George J. Milne
CA	Prakash Pannangaden
CH	Uwe Nestmann
CN	Huimin Lin
CN	Xinxin Liu
DE	Holger Hermanns
DE	Joost-Pieter Katoen
DE	Uwe Nestmann
DE	Walter Vogler
DK	K.G. Larsen
FR	Roberto Amadio
FR	Gerard Boudol
FR	Ilaria Castellani
FR	Vincent Danos
FR	Hubert Garavel
FR	Catuscia Palamidessi
GB	Luca Cardelli
GB	Andrew D. Gordon
GB	Matthew Hennessy
GB	Kohei Honda
GB	Bill Roscoe
GB	Steve Schneider
GB	Colin Stirling
GB	Irek Ulidowski
GB	Nobuko Yoshida
HU	Zoltan Esik
IL	Orna Kupferman
IN	Madhavan Mukund
IT	Marco Bernardo
IT	Flavio Corradini
IT	Rocco De Nicola
IT	Anna Labella
IT	Cosimo Laneve
IT	Ugo Montanari
IT	Corrado Priami
IT	Davide Sangiorgi
JP	Naoki Kobayashi
NL	Jos C.M. Baeten
NL	Jan Bergstra
NL	Jan Friso Groote
NL	Bas Luttik
NL	Alban Ponse
SG	P. S. Thiagarajan
US	Martin Abadi
US	Luca de Alfaro
US	Scott Smolka
US	Eugene W. Stark
US	Moshe Y. Vardi

TC 2 (SOFTWARE: THEORY AND PRACTICE) 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.

SCOPE
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

URL: http://www.ifiptc2.org

Chair
Prof.Dr. Robert A.MEERSMAN, BE
Vrije Universiteit Brussel
Dept. of Computer Science
STARlab, Building G/10
Pleinlaan 2
BE-1050 BRUSSELS
Belgium
Tel. +32 2 629 3308
Fax +32 2 629 3525
e-mail: meersman@vub.ac.be

Vice-Chair
Dr. Bashar NUSEIBEH, GB
The Open University
Faculty of Maths & Computing
Computing Department
Walton Hall
MILTON KEYNES, MK7 6AA
United Kingdom
Tel. +44 1 908 655185
Fax +44 1 908 652140
e-mail: b.a.nuseibeh@open.ac.uk

Secretary
Prof. Stefan BIFFL, AT
Technische Universität Wien
Inst. für Softwaretechnik und Interaktive Systeme
Room HD0205
Favoritenstrasse 9-11/188/2
AT-1040 WIEN, Austria
Tel. +43 1 588 01 18810
Fax +43 1 588 01 18899
e-mail: stefan.biffl@tuwien.ac.at

AR	Marcelo Frias	DE	Manfred Paul	NZ	Elizabeth A. Kemp (SEARCC)
AU	Tharam Dillon	ES	Pere Botella Lopez	PL	Jerzy R. Nawrocki
BG	Avram Eskenazi	HU	Miklos Biro	RS	Nenad Stefanović
CH	Bertrand Meyer	IT	Ugo De Carlini	SK	Maria Bielikova
CLEI	Hernan Astudillo	JP	Masami Hagiya	US	Joseph E. Urban (IEEE)
DE	Michael Goedicke	NL	S. Doaitse Swierstra	ZA	Judith M. Bishop

ex-officio members: WG Chairs

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.

SCOPE
- 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.

URL: http://www.ifiptc2.org/wg-2.1.html

Chair
Prof. Lambert MEERTENS
Kestrel Institute
3260 Hillview Avenue
PALO ALTO, CA 94304
USA
Tel. +1 650 493 6871
Fax +1 650 424 1807
e-mail: lambert@kestrel.edu

Secretary
Dr. Jeremy GIBBONS
Oxford University, Computing Lab.
Wolfson Building
Parks Road
OXFORD OX1 3QD, United Kingdom
Tel. +44 1865 283508
Fax +44 1865 273839
e-mail: jeremy.gibbons@comlab.ox.ac.uk

AU	Carroll C. Morgan	DE	Peter Pepper	NL	W.L. van der Poel
BE	Michel Sintzoff	GB	Roland Backhouse	NL	S.Doaitse Swierstra
CA	Hendrik J. Boom	GB	Richard S. Bird	SE	Patrik Jansson
CA	Jules Desharnais	GB	Ralf Hinze	UY	Alberto Pardo
CA	Eric C. R. Hehner	GB	Graham Hutton	US	Ernie Cohen
CA	Peter R. King	GB	Charles H. Lindsey	US	Robert B.K. Dewar
CA	John E.L. Peck	GB	Oege de Moor	US	Martin S. Feather
DE	Friedrich L. Bauer	IT	Alberto Pettorossi	US	Allen Goldberg
DE	Andres Löh	JP	Eiiti Wada	US	Yanhong A. Liu
DE	Bernhard Möller	NL	Johan Jeuring	US	Douglas R. Smith
DE	Helmut Partsch	NL	C.H.A. Koster	US	David S. Wile
DE	Manfred Paul				

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.

SCOPE
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.

URL: http://www.ifiptc2.org/wg-2.2.html

Chair
Prof. Davide SANGIORGI
Universita' di Bologna
Dipartimento di Scienze dell'Informazione
Mura Anteo Zamboni, 7
IT-40127 BOLOGNA, Italy
Tel. +39 051 2094980
Fax +39 051 2094510
e-mail: Davide.Sangiorgi@cs.unibo.it

Vice-Chair
Dr. Igor WALUKIEWICZ
LaBRI
Université Bordeaux-1
351, Cours de la Libération
FR-33405 TALENCE Cedex
France
Tel. +33 5 40 00 66 00
Fax +33 5 40 00 66 69
e-mail: igw@labri.fr

Secretary
Dr. Philippe DARONDEAU
IRISA
Campus de Beaulieu
FR-35042 RENNES Cedex
France
Tel. + 33 2 9984 7280
Fax + 33 2 9984 7171
e-mail: darondeau@irisa.fr

DE	Javier Esparza	GB	Maciej Koutny	JP	Masami Hagiya
DE	Markus Müller-Olm	GB	Peter D. Mosses	JP	Masahiko Sato
DE	Ernst-Rüdiger Olderog	IL	Amir Pnueli	NL	Frank S. de Boer
DE	Willem-Paul de Roever	IT	Egon Boerger	PL	Wojciech Penczek
DK	Anders P. Ravn	IT	Mariangiola Dezani-Ciancaglini	PL	Andrzej Tarlecki
FR	Michel Bidoit	IT	Furio Honsell	SE	K.V.S. Prasad
FR	Stephan Merz	IT	Ugo Montanari	US	Radu Grosu
FR	Catuscia Palamidessi	IT	Rocco De Nicola	US	J. Strother Moore

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

AIMS

To increase programmers' ability to compose programs.

SCOPE

- 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.

URL: http://www.ifiptc2.org/wg-2.3.html

Chair
Dr. Pamela ZAVE
AT&T Research
180 Park Ave. Rm B211
FLORHAM PARK, NJ 07932
USA
e-mail: pamela@research.att.com

Vice-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

Secretary
Dr. K. Rustan M. LEINO
One Microsoft Way
REDMOND, WA 98052
USA
e-mail: leino@microsoft.com

AU	Ian Hayes	GB	C.A.R. Hoare	US	S. Krishnamurthy
AU	Annabelle McIver	GB	Michael Jackson	US	Butler W. Lampson
AU	Carroll C. Morgan	GB	Cliff B. Jones	US	Gary Todd. Leavens
BE	Michel Sintzoff	NZ	Mark Utting	US	M. Douglas McIlroy
CA	Eric C. Hehner	SG	Dines Bjorner	US	Jayadev Misra
CH	Jean-Raymond Abrial	US	Robert M. Balzer	US	Greg Nelson
CH	Bertrand Meyer	US	Ernie Cohen	US	Benjamin Pierce
DE	Manfred Broy	US	John R. Harrison	US	Josyula R. Rao
FR	Patrick Cousot	US	James Ray Horning	US	John C. Reynolds
FI	Ralph-Johan Back	US	Daniel Jackson	US	Natarajan Shankar
GB	Peter Henderson				

WG2.4 - Software Implementation Technology est. 1973, revised 1991, 1992, 2000

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.

SCOPE

- 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.

URL: http://www.ifiptc2.org/wg-2.4.html

Chair

Dr. John GOUGH
Queensland Institute of Technology
Faculty of Information Techn.
2 George Street
GPO Box 2434
AU-BRISBANE QLD 4001
Australia
Tel. +61 7 3864 2781
Fax +61 7 3864 1507
e-mail: j.gough@qut.edu.au

Secretary

Dr. Mark L. JOLIAT
Info Access (1988) Inc.
4 Spinney Court
CA-DON MILLS, ON,
Canada M3A 3H2
Tel. +1 416 445 3157
Fax +1 416 444 7658
e-mail: joliat@infoaccess.ca

AT	Jens Knoop
AU	Bernhard Scholz
CA	R.Nigel Horspool
CH	Thomas Gschwind
DE	Uwe Assmann
DE	Gerhard Goos
DE	Stefan Jähnichen
DE	Uwe Kastens
DE	Rudolf Landwehr
DE	Claus Lewerentz
DE	Arnd Poetzsch-Heffter
DE	Nikola Serbedzija
DE	Wolf Zimmermann
GB	Karen Renaud
GB	Peter Welch
HU	Tibor Gyimothy
IT	Vincenzo Ambriola
PL	Jerzy R. Nawrocki
SE	Peter Fritzson
SE	Welf Löwe
US	Lynn Robert Carter
US	Cliff Click
US	Michael Franz
US	Philip Levy
US	C.Robert Morgan
US	John R. Nestor
US	Joseph M. Newcomer
US	Frank Tip
US	Jan Vitek
US	William M. Waite
US	Kurt C. Wallnau
ZA	Judith M. Bishop
ZA	Ken J. MacGregor
ZA	Bruce Watson

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

AIMS

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

SCOPE

- Environment. The definition from a numerical standpoint of a set of hardware and software features for a computing system.
- Tools. The development and improvement of programming languages and other tools for numerical computation.
- Algorithms. The establishment of guidelines for the assessment of numerical algorithms and their implementations.
- Software. The establishment of guidelines for the preparation, interoperability, verification, validation, documentation, distribution and maintenance of numerical software.

- Data. The establishment of guidelines for the validation, documentation, preservation, and distribution of numerical data.
- Communication. The exchange of information concerning numerical software and the determination of the needs of computer users.

URL: : http://www.ifiptc2.org/wg-2.5.html

Chair
Dr. Ronald F. BOISVERT
Nat. Inst. of Standards and Technology
Mathematical & Computational Sciences Division
GAITHERSBURG
MD 20899-8910, USA
Tel. +1 301 975 3812
Fax +1 301 990 4127
e-mail: boisvert@nist.gov

Vice-Chair
Prof. Michael THUNÉ
Department of Information Technology
Uppsala University
Box 337
SE-751 05 UPPSALA
Sweden
Tel. +46 18 471 29 81
Fax +46 18 52 30 49
e-mail: michael.thune@it.uu.se

Secretary
Prof. Wayne ENRIGHT
Dept. of Computer Science
Computer Science Building
University of Toronto
CA-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	GB	Ian Reid	US	Richard J. Hanson
BE	Ronald Cools	JP	Shigeo Kawata	US	Elias N. Houstis
CN	Mo Mu	JP	Masaaki Shimasaki	US	Osni A. Marques
DE	Ulrich Kulisch	NO	Patrick Gaffney	US	James C. T. Pool
DE	Siegfried M. Rump	NO	Hans Petter Lantangen	US	John R. Rice
DE	Wolfgang Walter	SE	Bo Einarsson	US	Brian T. Smith
ES	Javier Segura	US	Craig Douglas	US	W. Van Snyder
FR	Francoise Chaitin-Chatelin	US	Ian Gladwell	US	Ping Tak Peter Tang
GB	Brian Ford	US	William D. Gropp	US	Mladen A. Vouk
GB	Tim Hopkins				

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.

SCOPE

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

URL: http://www.ifiptc2.org/wg-2.6.html

Chair
Prof. Ernesto DAMIANI
University of Milan
Dipartimento di Tecnologie
dell'Informazione
Via Bramante 65
IT-26013 CREMA
Italy
Tel. +39 0373 898064
Fax +39 0373 898010
e-mail: damiani@dti.unimi.it

Vice-Chair
Prof. Mohand-Said HACID
Université Claude Bernard
Lyon 1
LIRIS - UFR d'Informatique
Batiment Nautibus
43, boulevard du 11 nov. 1918
FR-69622 VILLEURBANNE
France
Tel. +33 4 72 43 27 74
Fax +33 4 72 43 15 36
e-mail: mshacid@liris.univ-lyon1.fr

Secretary
Dr. Paolo CERAVOLO
University of Milan
Dipartimento di Tecnologie
dell'Informazione
Via Bramante 65
IT-26013 CREMA
Italy
Tel. +39 0373 898040
Fax +39 0373 898010
e-mail: ceravolo@dti.unimi.it

AU	Tharam Dillon	DE	Wolfgang Klas	IL	Avigdor Gal
BE	Rita de Caluwe	DE	Erich J. Neuhold	IT	Tiziana Catarci
BE	Guy de Tré	DE	Thomas Risse	IT	Maurizio Lenzerini
BE	Olga de Troyer	DE	Kai-Uwe Sattler	IT	Monica Scannapieco
BE	Robert Meersman	DE	Marc H. Scholl	IT	Stefano Spaccapietra
BE	Peter Spyns	DE	Rudi Studer	KR	Kyu-Young Whang
CH	Karl Aberer	ES	Arantza Illaramendi	SE	Tore Risch
CY	Mustafa Jarrar	GB	Alia Abdelmoty	US	Philippe Cudre-Mauroux
DE	Peter Fankhauser				

WG2.7/WG13.4 - User Interface Engineering est. 1975, revised 1987, 1991

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

SCOPE
- 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.

URL: http://www.se-hci.org/members.html

Chair
Dr. Nicholas GRAHAM
Queen's University
School of Computing
CA-KINGSTON, ON K7L 3N6
Canada
Tel. +1 613 533 6526
Fax +1 613 533 6513
e-mail: graham@cs.queensu.ca

Vice-Chair
Mr. Philip GRAY
University of Glasgow
Dept.of Computing Science
GLASGOW G12 8QQ
Scotland, United Kingdom
Tel. +44 141 330 4933
Fax +44 141 330 4913
e-mail: pdg@dcs.gla.ac.uk

Secretary
Ms. Gaëlle CALVARY
Laboratoire CLIPS-IMAG
Equipe IIHM, Bureau B206
385 Rue de la Bibliothèque BP 53
FR-38041 GRENOBLE Cedex 9
France
Tel. +33 4 76 51 48 54
Fax +33 4 76 44 66 75
e-mail: gaelle.calvary@imag.fr

BR	Simone Barbosa	FR	Annie Chabert	IT	Fabio Patern
CA	Greg Phillips	FR	Stéphane Chatty	NL	Gerrit van der Veer
CA	Kevin Schneider	FR	Joëlle Coutaz	NL	Daniel Salber
DE	Joerg Roth	FR	Laurence Nigay	US	Bonnie E. John
DE	Helmut G. Stiegler	FR	Philippe Palanque	US	Rick Kazman
DE	Claus Unger	GB	Chris Roast	US	Reed Little
FR	Remi Bastide	GB	Leon Watts		

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

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

SCOPE
- 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.

URL: http://www.ifiptc2.org/wg-2.8.html

Chair
Prof. Simon PEYTON JONES
Microsoft Research Ltd.
7 JJ Thompson Av.
CAMBRIDGE CB3 0FB
United Kingdom
Tel. +44 1223 479848
Fax +44 1223 479999
e-mail: simonpj@microsoft.com

Secretary
Dr. Ralf HINZE
Oxford University Computing Laboratory
Oxford University
Wolfson Building, Parks Road
OXFORD OX1 3QD
United Kingdom
Tel. +44 1865 610700
Fax +44 1865 283531
e-mail: ralf.hinze@comlab.ox.ac.uk

AU	Manuel M. T. Chakravarty
CA	Warren Burton
CH	Martin Odersky
DE	Peter Thiemann
DK	Olivier Danvy
DK	Fritz Henglein
DK	Neil Jones
FR	Xavier Leroy
FR	Didier Remy
GB	Richard S. Bird
GB	Chris Clack
GB	John T. O'Donnell
GB	Colin Runciman
GB	Satnam Singh
GB	David A. Turner
GB	Philip Wadler
NL	Rinus Plasmeijer
SE	Lennart Augustsson
SE	Koen Lindström Claessen
SE	John M. Hughes
SE	Thomas Johnsson
SE	Mary Sheeran
US	Arvind
US	Robert Cartwright
US	Jack B. Dennis
US	Conal Elliott
US	Kathleen Fisher
US	Robert W. Harper
US	Paul Hudak
US	Mark P. Jones
US	Richard B. Kieburtz
US	John Launchbury
US	David B. MacQueen
US	Erik Meijer
US	Greg Morrisett
US	Rishiyur S. Nikhil
US	Christopher Okasaki
US	Benjamin Pierce
US	Olin Shivers
US	Joe Stoy
US	Stephanie Weirich

WG2.9 - Software Requirements Engineering est. 1993

AIMS (prelim.)
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.

SCOPE
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;
- reuse and adaptation of requirements;
- domain modelling and analysis;
- requirements engineering for distributed, safety-critical, composite, real-time and embedded systems.

URL: http://www.ifiptc2.org/wg-2.9.html

Chair
Prof. Bashar NUSEIBEH
The Open University
Faculty of Maths & Comp.
Walton Hall
MILTON KEYNES, MK7 6AA
United Kingdom
Tel. +44 1908 655185
Fax +44 709 2333847
e-mail: b.a.nuseibeh@open.ac.uk

Vice-Chair
Prof. Joanne M. ATLEE
University of Waterloo
School of Computer Science
200 University Ave. West
CA-WATERLOO, Ontario
N2L 3G1, Canada
Tel. +1 519 888 4567 x4871
Fax +1 519 885 1208
e-mail: jmatlee@uwaterloo.ca

Secretary
Prof. William N. ROBINSON
Georgia State Univ.
College of Business Admin.
Comp.Inform.Syst.Dept.
ATLANTA, GA 30302-4015,
USA
Tel. +1 404 651 3867
Fax +1 404 651 3842
e-mail: wrobinson@gsu.edu

AR	Sebastian Uchitel	GB	Jeff Magee	US	Mark Feblowitz
BE	Axel van Lamsweerde	GB	Alistair Sutcliffe	US	Stephen Fickas
BR	Julio Caesar S. Leite	IE	Kevin Ryan	US	Sol J. Greenspan
CA	Daniel M. Berry	IT	Carlo Ghezzi	US	Robert J. Hall
CA	Marsha Chechik	JP	Masami Hagiya	US	Mats Heimdahl
CA	John Mylopoulos	LU	Eric Dubois	US	Constance L. Heitmeyer
DE	Matthias Jarke	RS	Nenad Stefanovic	US	Daniel Jackson
DE	Klaus Pohl	US	Annie I. Anton	US	Robyn R. Lutz
GB	Anthony Finkelstein	US	Ramesh Bharadwaj	US	Colin Potts
GB	Michael Jackson	US	Steve Easterbrook	US	Pamela Zave
GB	Jeffrey Kramer	US	Martin S. Feather		

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.

SCOPE
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.

URL: http://www.ifiptc2.org/wg-2.10.html

Chair
Dr. Christine HOFMEISTER
Lehigh University
Electrical Engineering and Computer Science Department
Packard Lab
19 Memorial Drive West
BETHLEHEM, PA 18015
USA
Tel. +1 610 758 4103
Fax +1 610 758 6279
e-mail: hofmeister@cse.lehigh.edu

Secretary
Dr. Philippe KRUCHTEN
University of British Columbia
Dept. of Elec. & Comp. Eng.
2356 Main Mall, room 441
CA-VANCOUVER, B.C. V6T 1Z4
Canada
Tel. +1 604 827 5654
e-mail: pbk@ece.ubc.ca

CA	Morven W. Gentleman	NL	Jan Bosch	US	Robert L. Nord
FI	Tomi Männistö	NL	Henk Obbink	US	Mary M. Shaw
FI	Alexander Ran	NL	Hans van Vliet	US	Judith A. Stafford
GB	Eoin Woods	US	Paul C. Clements		
NL	Maarten Boasson	US	Rich Hilliard		

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.

SCOPE
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.

URL: http://hope.cs.rice.edu/twiki/bin/view/WG211/WebHome

Chair
Prof. Christian LENGAUER
University Passau
Room 129
DE-94030 PASSAU
Germany
Tel. +49 851 509 3070
Fax +49 851 509 3092
e-mail: Christian.Lengauer@uni-passau.de

Vice-Chair
Prof. Julia L. LAWALL
University of Copenhagen
Dept. of Computer Science
Universitetsparken 1
DK-2100 COPENHAGEN
Denmark
Tel. +45 35 32 14 05
Fax +45 35 32 14 01
e-mail: julia@diku.dk

CA	Krzysztof Czarnecki
DE	Ralf Lämmel
DE	Joerg Striegnitz
DK	Olivier Danvy
DK	Robert Glück
DK	Ulrik Pagh Schultz
DK	Peter Sestoft
FR	Albert Cohen
FR	Charles Consel
FR	Anne Francoise Le Meur
FR	Laurent Reveilliere
GB	Edwin Brady
GB	Bernd Fischer
GB	Kevin Hammond
GB	Christoph Herrmann
GB	Paul Kelly
GB	John O'Donnell
IT	Eugenio Moggi
NL	Eelco Visser
US	William R. Cook
US	Ewen Denney
US	Sam Kamin
US	Oleg Kiselyov
US	Christina Lopes
US	Harold Ossher
US	Tim Sheard
US	Yannis Smaragdakis
US	Walid Taha
US	Stephanie Weirich

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.

SCOPE
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

URL: http://www.ceebi.curtin.edu.au/IFIP/

Chair
Prof. Tharam DILLON
Curtin University of Technology
Digital Ecosystems and Business Intelligence Institute
P.O. Box U1987
AU-PERTH WA, 6845
Australia
e-mail:
tharam.dillon@cbs.curtin.edu.au

Vice-Chairs
Prof. Elizabeth CHANG
Curtin University of Technology
Centre for Extended Enterprise and Business Intelligence
PO Box U1987
AU-PERTH WA, 6845
Australia
Tel. +61 8 9266 1235
Fax +61 8 9266 7548
e-mail:
elizabeth.chang@cbs.curtin.edu.au

Prof. Ernesto DAMIANI
Universita degli Studi di Milano
Dipartimento di Tecnologie dell'Informazione
via Bremante, 65
IT-26013 CREMA
Italy
Tel. +39 03 738 98064
Fax +39 03 738 98010
e-mail: edamiani@crema.unimi.it

Secretary
Prof. Elizabeth CHANG
Curtin University of Technology
Centre for Extended Enterprise and Business Intelligence
PO Box U1987
AU-PERTH WA, 6845
Australia
Tel. +61 8 9266 1235
Fax +61 8 9266 7548
e-mail:
elizabeth.chang@cbs.curtin.edu.au

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

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.

SCOPE
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

URL: http://www.ifiptc2.org/wg-2.13.html

Chair
Prof. Giancarlo SUCCI
Free University of Bolzano-Bozen
Faculty of Computer Science
Center for Applied Software Engineering
Piazza Domenicani 3
IT-39100 BOLZANO
Italy
Tel. +39 0471 016130
Fax +39 0471 016009
e-mail: Giancarlo.Succi@unibz.it

Vice-Chair
Prof. Ernesto DAMIANI
Universita degli Studi di Milano
Dipartimento di Tecnologie dell'Informazione
via Bremante, 65
IT-26013 CREMA
Italy
Tel. +39 03 738 98064
Fax +39 03 738 98010
e-mail: edamiani@crema.unimi.it

AU Elisabeth Chang
AU Gregory Simmons
AT Stefan Koch
ES Jesús Gonzalez-Barahona
FR Jean-Luc Hardy
FR Jean-Michel Dalle
FR Jean Pierre Laisne
GB Martin Michlmayr
IE Joseph Feller
IE Brian Fitzgerald
IE David Parnas
IT Paolo Pumilia
IT Barbara Scozzi
NL Rishab Aiyer Ghosh
SA Mahmoud Elish
SE Bjorn Lundell
TR Bulent Ozel
US Kevin Crowston
US Paul A. David
US Scott Hissam
US Karim Lakhani
US Sandy Slaughter
US Katherine Stewart
US Tony Wasserman
ZA Derrick G. Kourie

TC 3 (EDUCATION) 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.

URL: http://www.ifip-tc3.net/

Chair

Prof. Bernard CORNU, FR
Director, CNED-EIFAD
2 avenue René Cassin,
BP 30241
FR-86963 FUTUROSCOPE
CHASSENEUIL CEDEX
France
Tel. + 33 549 499 799
email:
bernard.cornu@cned.fr

Vice-Chairs

Mr. Sindre RØSVIK, NO
Giske kommune
Rådhuset
NO-6050 VALDEROY
Norway
Tel. +47 7018 8012
Fax +47 7018 8001
e-mail: sir@giske.kommune.no

Prof. Anne McDOUGALL, AU
University of Melbourne
Faculty of Education
AU-VICTORIA 3010, Australia
Tel. +61 3 8344 9573
Fax +61 3 8344 8739
e-mail: a.mcdougall@unimelb.edu.au

Special Consultants

Mr. Anton KNIERZINGER, AT
Education Highway Gmbh
Hafenstr. 47-51
AT-4020 LINZ
Austria
Tel. +43 732 788078
Fax +43 732 788078-88
e-mail: a.knierzinger@ist.eduhi.at

Prof. Raymond MOREL, CH
Direction of SEM (Educational Foresight)
Case Postale 3144
CH-1211 GENEVA 3
Switzerland
Tel. +41 79 2035118
Fax +41 22 3883301
e-mail:
Raymond.Morel@tecfa.unige.ch

Newsletter Editor

Prof. Mikko J. RUOHONEN, FI
University of Tampere
School of Economics and Business Administration
Kanslerinrinne 1
FI-33014 TAMPERE
Finland
Tel. +358 335 516 777
Fax +358 335 518 075
e-mail: mikko.j.ruohonen@uta.fi

AT	Gerald Futschek	GR	Eleni Ntrenogianni	PT	Ana Amélia Carvalho
BE	Willy Baute	HU	Marta Turcsanyi-Szabo	RS	Miladin Stefanović
BG	Roumen Nikolov	IN	Pradeep H. Pendse	SE	Lena Olsson
BR	Raul Sidnei Wazlawick	IS	Anna Kristjansdottir (Obs)	SG	Lung Hsiang Wong

CL	Jaime Sanchez	IT	Vittorio Midoro	SI	Vladislav Rajkovic
CLEI	Ernesto Cuadros-Vargas	JP	Hajime Ohiwa	SK	Ivan Kalas
CN	Xiaoming Li	KR	Chan-Mo Park	TH	Srisakdi Charmonman
DE	Sigrid Elisabeth Schubert	LT	Valentina Dagienë	UNESCO	Cedric Wachholz
ES	Carlos Delgado Kloos	MU	Alain Senteni	US	Albert Joseph Turner (ACM)
FI	Jari Koivisto	NL	Hans Frederik	US	Willis King (IEEE)
FR	Monique Grandbastien	NO	Jan Wibe	ZA	Peter Waker
GB	Mike Kendall	PL	Maciej M. Syslo		

ex-officio members: WG Chairs

WG3.1 - Informatics and ICT in Secondary Education est. 1966, revised 1998

The Working Group is concerned with the role of both informatics and resulting Information and Communication Technologies (ICT) in secondary education (age range from 11 to 18 years).

The mission of the Working Group is to provide a forward look on the development and impact of informatics and resulting technologies in secondary education from an international viewpoint. It tries to identify problems, document experiences and find solutions. It does not strive to offer a unique solution to problems, as it is aware that specific circumstances of people and countries must in general be taken into account.

AIMS

- The Working Group aims to develop effective communication among its members who come from many countries. This communication network which is based on group communication through telecommunications, meeting in person at working conferences and workshops, allows members to actively access state-of-the-art results of research and practice and to develop a collective expertise.
- On the basis of this collective expertise, prospective ideas about development and impact of informatics and related technologies in secondary education are formed.
- The collective expertise is shared with others in open conferences, seminars and workshops, consultancy, and through telecommunications and publications.

SCOPE

The work in Working Group 3.1 covers all aspects of the role of informatics and resulting technologies in secondary education. Among these aspects are :

- informatics curricula: content and pedagogy
- information literacy: content and pedagogy
- informatics in other subject areas
- use of ICT within the subject of informatics
- use of ICT within other subject areas
- impacts of informatics and ICT on contents and methods of teaching and learning
- impacts of ICT on organization and management of teaching impacts of ICT on the learning of the new generation
- impacts of ICT on teacher training and professional development of teachers
- use and impacts of ICT on learning outside of the institution whether formal or informal in nature

URL: http://www.die.informatik.uni-siegen.de/ifip-wg31

Chair
Drs. Pieter HOGENBIRK
Helen Parkhurst Dalton Secondary School
Bongerdstraat 1
NL-1326 AA Almere
Netherlands
Tel. +31 36 535 70 00
Fax +31 36 535 70 05
e-mail: p.hogenbirk@helenpark.nl

Vice-Chair
Prof. Sigrid E. SCHUBERT
Universität Siegen
Fachbereich 12
Elektrotechnik und Informatik
Didaktik der Informatik und E-Learning
DE-57068 SIEGEN
Germany
Tel. +49 271 740 3457
Fax +49 271 740 3231

AR	Herminia Azinian	DE	Peter Hubwieser	IL	David Passig
AT	Peter Micheuz	DE	Johannes Magenheim	IS	Anna Kristjansdottir
AT	Erich Neuwirth	DE	Peer Stechert	IT	Rosa Maria Bottino
AU	Judy Hammond	DE	Wolfgang Weber	IT	Enrica Lemut
AU	Anne McDougall	DE	Michael Weigend	LT	Valentina Dagiene
BE	Gilberte Schuyten	DK	Peter Bollerslev	NL	Natasa Grgurina
BG	Bojka Gradinarova	ES	Ferran Ruiz Tarrago	NL	Jef Moonen
BR	Ubiratan D'Ambrosio	FI	Matti Sinko	NL	Bert Zwaneveld
CA	Bernard R. Hodgson	FI	Leena Vainio	NO	Said Hadjerrouit*
CA	Alnaaz Kassam	FR	Bernard Cornu	NO	Jan Wibe
CH	Yvonne Buettner	FR	Bernard Dumont	NZ	Kwok-Wing Lai
CH	Helmut Schauer	FR	Helene Godinet	US	Robert M. Aiken
CH	Raymond Morel	FR	Jean-Marie Laborde	US	Terrence R. Cannings
CL	Sebastian Lagos	GB	Doug Brown	US	Gerald L. Engel
CN	Qi Chen	GB	Mike Kendall	US	Marie Iding
CN	Zujun Qin*	GB	Bob Munro	US	Viera K. Proulx
CN	Jianwei Zhang	GB	Brian Samways	US	Harriet G. Taylor
DE	Torsten Brinda	GB	Deryn M. Watson	ZA	Peter Waker
DE	Klaus D. Graf	HU	Marta Hunya*		

*) Corresponding member

WG3.2 - Informatics and ICT in Higher Education est. 1968, revised 1981, 1989, 1998

The Working Group is concerned with the roles of both informatics and resulting Information and Communication Technologies (ICT) in higher education.
The mission of the Working Group is to provide a forward look on the development and impact of informatics and resulting technologies in higher education from an international viewpoint. It tries to further the professional work of each of its members and to identify problems, experiences and solutions. It does not strive to offer a unique solution to problems, as it is aware that specific circumstances of people and countries must in general be taken into account.

AIMS

- The Working Group aims to develop effective communication among its members who come from many countries. This communication network , which is based on meetings in person at working conferences and workshops, allows members to actively access state of the art results of research and practice, and to develop a collective expertise.
- On the basis of this collective expertise, prospective ideas about development and impact of informatics and related technologies in higher education are formed.
- The collective expertise is shared with others in open conferences, seminars, and consultancy and through publications.
- The Working Group strives to achieve a proper understanding of the impact of the information technologies on society in order to be able to define the consequent new professional responsibilities of all students.
- The curricular work of the working group aims:
- to revise curricula for informatics dealing with changes both from technological development and from theoretical advances;
- to provide guidance on the informatics component needed in the curricula of all disciplines;
- to provide model curricula, adaptable to various cultural needs and educational systems, especially those of developing countries.

SCOPE

The work in Working Group 3.2 covers all aspects of the role of informatics and resulting technologies in higher education (universities, polytechnics, colleges of higher education, institutes of technology, etc.) covering education of specialists (like informaticians, computer scientists, software engineers, etc.), as well as the education of students from other disciplines.

Among the aspects covered are:

- informatics curricula
- informatics in other subject areas
- use of ICT within the subject of informatics and other subject areas
- impacts of informatics and ICT on contents and methods of teaching and learning
- impacts of ICT on organisation and management of teaching and learning.

URL: http://www.cs.brynmawr.edu/wg3.2

Chair
Mr. Gordon DAVIES
9 Eridge Green
Kents Hill
MILTON KEYNES MK7 JE
United Kingdom
e-mail:
gordon.davies7@virgin.net

Vice-Chair
Prof. Deepak KUMAR
Bryn Mawr College
Computer Science
101 N. Merion Ave.
BRYN MAWR, PA 19010
USA
Tel. +1 610 526 7485
Fax +1 610 526 7469
e-mail: dkumar@cs.brynmawr.edu

BR	Ricardo Reis	FR	Monique Grandbastien	US	Lillian Cassel
BR	Raul S. Wazlawick	NL	Petra Fisser	US	Richard J. Leblanc
CH	Bernard Levrat	NL	Anneke E. N. Hacquebard	US	Eric Roberts
DE	Torsten Brinda	PL	Jan. Zabrodzki	US	Albert Joseph Turner
DE	Sigrid E. Schubert	US	Robert M. Aiken		

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.

SCOPE
- 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.

Chair
Rosa Maria BOTTINO
Consiglio Nazionale Ricerche
Istituto Tecnologie Didattiche
Via De Marini 6
IT-16149 GENOVA
Italy
Tel. +39 010 6475676
Fax +39 010 647 5300
e-mail: bottino@itd.cnr.it

AU	Geof Cumming	DE	Wolfgang Müller	GR	Kleopatra Nikopoulu
AU	Carolyn Dowling	DK	Lone Dirckinck-Holmfeld	HU	Andrea Karpati
AU	Tony Downes	DK	Jorge Jensen	IL	Nurit Zehavi
AU	Anne McDougall	DK	Janni Nielsen	IT	Paolo Rocchi
AU	Paul Nicholson	ES	Balthasar Fernandez-Manjon	LT	Valentina Dagiene
AU	Nick Reynolds	ES	Alfredo Fernandez-Valmayor	NL	Betty Collis
AU	Geoff Romeo	FI	Pentti Hietala	NL	Jef J. Moonen
AU	Martyn Wild	FI	Jari Multisilta	NL	Bert Zwaneveld
BE	Erike De Corte	GB	Margaret J. Cox	NZ	John Tiffin
BG	Darina Dicheva	GB	Robert E. J. Lewis	RU	Sergei A. Christochevsky
BG	Ivan Stanchev	GB	Bob Munro	US	Robert M. Aiken
BW	Paul Nleya	GB	Michelle Selinger	US	Niki E. Davis
CH	Franziska Spring-Keller	GB	Lampros Stergioulas	US	Clark N. Quinn
CO	Alvaro-Hernan Galvis-Panqueva	GB	Mary Web	NZ	Vince Ham
DE	Ulrich Kortenkamp	GR	Helen Drenoyianni		

WG3.4 - Professional and Vocational Education for the Information and Communication Technologies (ICT) Sector est. 1971, revised 1983, 1989, 1995, 2008

AIMS

- 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 achieve their employment expectations.
- To promote the effective use of ICT as a medium for the delivery of professional and vocational education.
- To examine the activities of ICT professional bodies concerning the professional development and certification of their members.

SCOPE

- The integration of ICT knowledge and practice with other vocational and professional education.
- The on-going professional development of ICT practitioners.
- 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 within the ICT sector.

WG3.4 is focused on the area of professional and vocational education rather than on specific computing curricula in primary, secondary or tertiary educational institutions. The membership of WG3.4 comprises academics and ICT practitioners whose interests are reflected in the conference activities organized by the Working Group over recent years. These 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.

URL: http://www.businessandlaw.vu.edu.au/ifip34/

Chair
Prof. J. Barrie THOMPSON
University of Sunderland
School of Comp., Eng. & Technology
St. Peter's Way, Tyne and Wear
SUNDERLAND SR6 0DD
United Kingdom
Tel. +44 191 515 2769
Fax +44 191 515 2781
e-mail:
barrie.thompson@sunderland.ac.uk

Vice-Chair
Dr. Arthur TATNALL
Victoria University
Victoria Graduate School of
Business
P.O. Box 14428
AU-MELBOURNE 8001
Australia
Tel. +61 3 9919 1034
Fax +61 3 9919 1064
e-mail: arthur.tatnall@vu.edu.au

Secretary
Barbara TATNALL
58 Meyrick Crescent
Viewbank
AU-VICTORIA 3084
Australia
Tel. +61 3 9459 2562
Fax +61 3 9459 8827
e-mail:
Barbara@HeidelbergPress.com.au

AU	Bill Davey
AU	Judy Hammond
AU	Peter Juliff
CH	Helmut Schauer
DE	Heike Köppe
DE	Gregor Kuhlmann
DK	Jane Andersen
FI	Lauri Fontell
FI	Timo Lainema
FI	Mikko J. Ruohonen
GB	Helen Edwards
GB	Lynne Humphries
IT	Domenico Ponta
IL	Ben Zion Barta
IL	Daniel Millin
IN	Arup Roy
JP	Shigeru Sam Otsuki
JP	Tsurayuki Kado
MY	Mohan Raj Gurubatham
NL	Anneke Hacquebard
NL	J.W. Houben
SG	Angela Goh
US	Joyce Currie Little

WG3.5 - Informatics and Digital Technologies in Elementary Education est. 1983, revised 1999, 2008

The working group is concerned with the role of digital technologies and Informatics in elementary education (age range from pre-school to 14 years). Its mission is to provide educationalists with an international forum where ideas, practical educational experiences, research and project-oriented work can be presented and discussed in a professional way in order to promote the development of elementary education teaching and children's learning.

AIMS

- develop pedagogical perspectives and respond to challenges raised by digital technologies in education and for creative activities and learning as cognitive tools;
- study and evaluate the issues arising when ICT is used in pre-school and elementary education; pre-service teacher education; and professional development for teachers and teacher educators;
- assist teachers (as practitioners), administrators and other educators to assess the impact of ICT on children, teachers, and the school community;
- develop understanding of learning environments appropriate to ICT use and where ICT is used;
- promote critical use of educational technologies in pre-school and elementary school settings including schools in the developing nations;
- promote the development of ICT materials and equipment, of recognized quality including the developing nations;
- promote the use of ICT to support the school integration of disabled and hospitalized pupils;
- focus on consequences and implications for teacher education and pedagogical needs of the future in ICT;
- ensure that ethical perspectives raised by the applications of ICT on education and children's lives are handled in a critical and appropriate way;
- enable ICT to make a beneficial contribution to children's learning and living;
- bring the problems of ICT education in pre-school and elementary education to the attention of school administrators and appropriate authorities to whom they report; and
- recognize the importance of Informatics in education and implementation of Informatics in curriculum of elementary education.

SCOPE

The scope of this working group is ICT in Elementary Education including:

- pre-school (nursery or early childhood) education;
- elementary (primary) schools;
- disabled and hospitalized pupils;
- teachers (initial training and professional development)
- the curriculum
- use in all disciplines and across all curriculum areas
- national policies
- equity and gender
- social, cultural and psychological aspects
- competency and assessment

URL: http://ifip35.inf.elte.hu/

Chair
Prof. Márta TURCSANYI-SZABO
Eötvös Loránd University
Faculty of Informatics
Informatics Methodology Group
Pázmány Péter sétány 1/C
HU-1117 BUDAPEST
Hungary
Tel. +36 1 372 2700/8471
Fax +36 1 381 2140
e-mail: turcsanyine@ludens.elte.hu

Vice-Chair
Dr. David BENZIE
College of St.Mark & St.John
Derriford Road
PLYMOUTH PL 8BH
United Kingdom
Tel. +44 1752 636804
Fax +44 1752 636823
e-mail:
David_Benzie@compuserve.com

AT	Anton Knierzinger	DE	Wolfgang Weber	GB	Bridget Somekh
AU	Dianne Chambers	DE	Michael Weigend	GR	Helen Drenoyianni
AU	Tony Downes	DK	Erling Schmidt	IE	Tomas O'Brian
AU	Anthony Jones	FR	George-Louis Baron	IL	Yaacov J. Katz
AU	Jocelyn Pride	FR	Eric Bruillard	IL	David Passig
AU	Christine Redman	GB	Maureen Haldane	NO	Rune Krumsvik
AU	Nick Reynolds	GB	Steve Kennewell	NO	Sindre Røsvik
AU	Katina Zammit	GB	Cathy Lewin	SK	Ivan Kalas
BG	Roumen Nikolov	GB	Avril Loveless	US	Dennis Harkins
BG	Evgenia Sendova	GB	Steven Naylor	US	Gail Marshall
CL	Ernesto Laval	GB	Matthew John Pearson	US	Margaret Niess
CZ	Miroslava Cernochova	GB	Diane Mavers	US	Nancy Yost
CZ	Stanislav Sinor				

WG3.6 - Distance Education est. 1987, rev. 2000, 2006

AIMS

The aims of the working group are:

- to investigate the use of Information and Communication Technologies (ICT) for learning in open, flexible and distance education.
- to facilitate discussion and dissemination of research and development in the field of learning through processes enabled by information and communication technologies (termed telelearning, E-learning, tele-education and online learning).

SCOPE:

The focus of the work will be on:

- Pedagogical issues
- Administrative issues
- Technological capabilities

with respect to the communication, interaction and information occurring in technologically mediated educational contexts such as virtual universities, globally networked school projects and internet distributed resources.

The working group's activities will mainly be conducted through working conferences, workshops, electronically mediated discussion and TC3 Teleteaching conferences

URL: http://education.deakin.edu.au/ifipwg3.6/Default.htm

Chair
Mr. Steve WHEELER
University of Plymouth
Faculty of Education
Rolle Building
Drake Circus
PLYMOUTH DEVON, PL4 8AA
U.K.
Tel. +44 1752 585481
Fax +44 1752 233787
e-mail: swheeler@plymouth.ac.uk

Vice-Chair
Dr. Zdena LUSTIGOVA
Charles University Prague
Department of Physics Education
Ke Karlovu 3 Praha 2
CZ-121 16 PRAGUE 2
Czech Republic
Tel. +420 2 2191 1209
Fax +420 2 2191 1292
e-mail: lustigo@plk.mff.cuni.cz

AT	Hermann Maurer
AT	Erich Neuwirth
AT	Eveline Riedling
AU	Malcolm Beazley
AU	Carolyn Dowling
AU	Anne Forster
AU	Ruth Geer
AU	Vicki Lowery
AU	Peter Smith
AU	Elizabeth Stacey
AU	Martyn Wild
BG	Roumen Nikolov
BG	Iliana Nikolova
BG	Ivan Stanchev
BR	Joberto Martins
BR	Antonio Simao Neto
CA	France Henri
CA	Gilbert Paquette
CH	Bernadette Charlier
CH	Raymond Morel
CH	Riitta Rinta-Filippula
CZ	Stanislav Zelenda
DE	Joachim Wedekind
DK	Kirsten M. Anttila
DK	Erik Dam
DK	Lone Dirckinck-Holmfeld
DK	Mogens Eriksen
DK	Erling Schmidt
ES	Sebastian Dormido
ES	Martin Llamas
ES	Jordi Castells Prims
ES	Felisa Verdejo
FI	Eero Pekkarinen
FI	Jyrki Pulkkinen
FI	Matti Sinko
FR	Michel Arnaud
FR	Alain Derycke
FR	Pierre Vincent
GB	Chris Abbott
GB	Doug Brown
GB	Gordon Davies
GB	Michelle Selinger
GB	Lampros Stergioulas
GB	Helen Milner
GB	Brian Samways
GB	Steve Wheeler
GR	Vassilis Koulountzos
HU	Attila Szabo
HU	Marta Turcsanyi-Szabo
IN	Rakesh Mohan Bhatt
IT	Rosanna Lisco
IT	Vittorio Midoro
IS	Lara Stefansdottir
MY	Zoraini Wati Abas
NL	Betty Collis
NL	Freek Gastkemper
NL	Fred de Vries
NL	Peter de Vries
NL	Wim Veen
NO	Bodil Ask
NO	Morten Flate Paulsen
NO	Hilding Sponberg
NO	Jan Peter Stromsheim
NZ	Phillipa Gerbic
PL	Anna Grabowska
PL	Barbara Kedzierska
PT	Ana Carvalho
SE	Stewe Gardare
SE	Birgitta Lindahl
SE	Lars-Erik Nilsson
SE	Lena Olsson
UA	Peter Serdiukov
US	Robert M. Aiken
US	Sylvia Charp
US	Niki Davis
US	Catherine Fulford
US	Virginia Warner

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

AIMS

- To promote effective and efficient use of Information and Communication Technologies within the management of educational institutions;
- To promote the use of ICT to support school improvement and accountability;
- To promote the use and advancement of decision support systems within educational management, including those from operations research, decision science, expert systems, human-computer interaction and others;
- To follow-up technological developments (hardware, software, communication systems), and their interoperability, their possible impact on ITEM application and to recommend and forecast the development of ITEM systems;
- To investigate the potentials of mobile technologies to support managerial and administrative work in educational institutions;
- To investigate human, social, ethical, aspects 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 ICT in educational organizations;
- To investigate aspects of security and privacy of ITEM systems and to provide recommendations for their adequate integration in educational settings;
- To care for international exchanges of information on the state of the art of research, development and implementation of ITEM systems;
- To promote international cooperation among ITEM research teams;
- 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 in the developmental stage of their ITEM systems.

SCOPE

The whole range of educational institutions from kindergarten to primary and secondary education, to universities, adult education and in-service training;
Local education authorities/school districts and educational policies;
Local, regional, national, international research and development institutions;
Academic, non-profit organizations, government, commercial.

URL: http://item.wceruw.org/

Chair
Dr. Adrie VISSCHER
University of Twente
Faculty of Behavioural Sciences
P.O. Box 217
NL-7500 AE ENSCHEDE
Netherlands
Tel. +31 53 489 3609
Fax +31 53 489 3791
e-mail: visscher@edte.utwente.nl

Vice-Chair
Dr. Andreas BREITER
University of Bremen
Information Management and Educational Technologies
Faculty for Mathematics and Computer Science
Am Fallturm 1
DE-28359 BREMEN, Germany
Tel. +49 421 218 7525
Fax +49 421 218 4894
e-mail: abreiter@informatik.uni-bremen.de

AU	Greg Baker
AU	Bill Davey
AU	Elspeth McKay
AU	Chris O'Mahony
AU	Geoff Sandy
AU	Maree Skillen
AU	Arthur Tatnall
BW	Coach Kereteleswe
CN	Alex Fung
ES	Jacques Bulchand
ES	Jorge Rodriguez-Diaz
ES	Javier Osorio
FI	Tuuliki Paturi
GB	Len Newton
GB	Don Passey
GB	Brian Samways
GB	Ian Selwood
IN	Rakesh Moha Bhatt
JP	Toshio Okamoto
NZ	Patrick C.J. Nolan
NZ	Brian Pawson
UG	Ronald Bisaso
US	Connie Fulmer
US	Christopher A. Thorn

WG3.8 - Lifelong Learning est. 2008

This Group is concerned with the role of both Informatics and the resulting Information and Communication Technologies (ICT) that enable each citizen and worker to adapt to the knowledge-based society and actively participate in all spheres of social and economic life, taking more control of his or her future. It looks particularly at the interaction between the different ways of acquiring and updating all kinds of abilities, interests, knowledge and qualifications. From this perspective of the individual learner it addresses all forms of learning and the interaction between them, including:

- formal learning, such as a degree course followed at university;
- non-formal learning, such as vocational skills acquired at the workplace;
- societal learning that enables individuals to live and work together, and
- informal learning that crosses generations.

Lifelong Learning is also a tool for reducing the "Digital Divide", whether it be between individuals in a single country or between individuals in different countries.

The mission of the Group is to provide a forward look on the development and impact of Informatics and the resulting technologies on Lifelong Learning from an international viewpoint. It tries to identify problems, document experiences and find solutions. It does not strive to offer a unique solution to problems as is aware of the specific circumstances of countries and of individual people.

AIMS

- The Group aims to develop effective communication amount its members. This communication network which is based on group communication through telecommunications and meeting in person at working conferences and workshops, allows members to actively access state-of-the-art results of research and practice and to develop a collective expertise.
- On the basis of this collective expertise, prospective ideas about development and impact of informatics and related technologies in lifelong learning are formed.
- The collective expertise is shared with others in open conferences, seminars and workshops, consultancy, and through telecommunications and publications.

SCOPE

The work in Group 3.8 covers all aspects of the interactive role of informatics and resulting technologies in lifelong learning. Among these aspects are:

- Lifelong Learning as an *economic issue;*
- Lifelong Learning as a *social issue;*
- Lifelong Learning as a *civic issue*;
- Lifelong Learning as a *cultural issue*;
- Lifelong Learning as a *personal issue*;
- Lifelong Learning as an *Information and Communication Technology issue*;

Lifelong Learning is an *economic issue*:

Economies are changing; in knowledge-intensive economies the demand for competent knowledge workers and skills workers is increasing. Supply is not in balance with the demand. The main economic importance of knowledge workers is trough knowledge creation; the main economic importance of skills workers is in knowledge application. To keep up with economic demands both groups have to enhance their competence in 'learning teams'. Learning has to be integrated into the work and this learning on the job constitutes Lifelong Learning from an employment related perspective.

Lifelong Learning as a *social issue*:

Social changes occur because of part-time work during initial education, of disappearing transition between initial education and working life, and of change as a second nature in work. Also new technological possibilities such as mobile phones play a role. We want (to do) it now, we want to do more at one time, we want it flexible and we want it personal and meaningful. This also applies to our social learning where 'learning communities' appear, be it local communities or communities of hobby or interest.

Lifelong Learning is a *civic issue*:

New opportunities for active participation in society are needed, empowering citizens to increase their influence over social, cultural and economic factors, locally and further a field, as ICT permits remote participation. Lifelong Learning in citizenship communities is a means to this active participation: "Just as Learning is being taken to the learner enhanced by the use of ICT, so is citizenship with developments in electronic governance."

Lifelong Learning is a *cultural issue*:
We have moved to a 'zap' culture with television, local satellite, web video and mobile TV, all being amplified by ICT. Small chunks of information, or entertainment, build up the mosaic of our cultural experiences, a culture of 'blips'. Ubiquitous mobile communication ("where are you?"), video and gaming, surfing the globe, all allow us to create our own cultural communities. Attention must be given to the digital divide being created by the 'haves' and 'have-nots'.

Lifelong Learning is a *personal issue*:
Changes in economic and social life require on-going personal development. In *personal life* a person may be a 'lonely' learner. But economic, social and cultural life require 'team learning' or 'community learning'. 'Lone wolf' learners may be able to 'help themselves', but have to be drawn into teams or communities. These 'lone wolf' learners fall into several age groups. Attention must be given to reaching all ages.

Lifelong Learning is an *Information and Communication Technology issue*:
Lifelong Learning provides new opportunities for active participation in society, empowering citizens to increase their influence over social, cultural and economic factors, locally and further a field, as ICT permits remote participation. Economic, social and cultural developments all point in a direction where personalized, flexible learning will be part of our economic, democratic, cultural and social life. Just as in the work place where its use is integrated, ICT will play an important enabling role in merging personal, private, leisure and work time. , Lifelong Learning takes place in the real world; that is, in a real-life setting where new knowledge has to be created and applied, because it is needed (to steer our actions). Therefore Lifelong Learning may appear in different contexts such as in a professional context, in a local/dispersed community context and in an Individual context. All of these fall within the scope of the group.

Chair
Mr. Mike KENDALL
EMBC
Dryden House
NORTHAMPTON NN4 7DD
United Kingdom
Tel: +44 1604 236182
Fax +44 1604 236179
e-mail: mkendall@embc.org.uk

BG Pencho Mihnev
CH Raymond Morel
DE Sigrid Schubert
DK Bent Andresen
FI Matti Sinko
FR Bernard Cornu
GB Doug Brown
GB Brian Samways
GB Barrie Thompson
IT Rosa Maria Bottino
IT Donatella Persico
NO Jan Wibe
PL Anna Grabowska
PL Maciej M. Syslo
SE Lena Olsson
SI Sasa Divjak

SIG 3.9 Digital Literacy est. 2007

The mission of Special Interest Group 3.9 is to provide an international forum for understanding and endorsing research, promoting policy development and improving practice on the challenging area of *Digital Literacy* and *e-Inclusion*. The work of SIG 3.9 encompasses the entire lifecycle of learning and aims to identify problems and factors, analyze experiences and provide solutions that would address successfully the differentiated needs, interests and aspirations of different groups of people with regard to digital literacy.

AIMS

- To create and expand a hub of experts in Digital Literacy with the aim to raise awareness and work in an organized and systematic way towards the pursuit of *Digital Literacy* and the bridging of *Digital Divide* in education, the workplace and society at large.
- To develop and offer a sustainable, single-point-of-access, high-quality information service on Digital Literacy.
- To offer consultancy, reporting and expertise brokering services on Digital Literacy and e-Inclusion in education and training.

SCOPE

To study and promote the pursuit of *digital literacy* and *e-Inclusion* in the full range of educational settings:

- Formal Education (primary, secondary, and higher education)
- Continuing Professional Development/Training and Vocational Education
- Adult Education
- Informal Education & social learning: learning at home/social environments

Focus areas: Democratic education, Critical pedagogy, Curricula and Educational frameworks, National policies, Teacher education and training, Professional education, Learning communities and Social/resource networks.

The work of Special Interest Group 3.9 aims to have a *global reach*, with a broad geographical granularity: local, regional, national, international/continental, worldwide.

Chair

Prof. Bernard CORNU
Directeur de la Formation-CNED
Directeur de CNED-EIFAD
Avenue René Cassin, BP 30241
FR-86963 FUTUROSCOPE
CHASSENEUIL CEDEX
France
Tel. +33 5 49 49 97 99
e-mail: bernard.cornu@cned.fr

Vice-Chair

Dr. Valentina DAGIENE
Institute of Mathematics and
Informatics
Akademijos str. 4
LT-08663 VILNIUS
Lithuania
Tel. +370 5 21 09 732
Fax +370 5 27 29 209
Email: dagiene@ktl.mii.lt

AU	Ruth Geer	GR	Helen Drenoyianni	NO	Jan Wibe
AT	Gerald Futschek	HU	Marta Turcsanyi-Szabo	PL	Maciej Syslo
CH	Raymond Morel	IT	Vittorio Midoro	PT	Ana Amelia Carvalho
GB	Ian Selwood	NL	Anneke Hacquebard	SE	Lena Olsson
GB	Lampos Stergioulas	NO	Sindre Røsvik		

TC 5 (INFORMATION TECHNOLOGY APPLICATIONS) est. 1970, revised 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.

Chair
Mr. Ronald WAXMAN, US
EDA Standards Consulting
24975 Hilltop Drive
BEACHWOOD, OH 44122-1357
USA
Tel. +1 216 297 9378
e-mail: r.waxman@computer.org

Vice-Chair
Dr. György L. KOVACS, HU
Hungarian Academy 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

Secretary
Mr. Mansour ASHTIANI, US Delphi Technologies, Inc.
5725 Delphi Drive
TROY, MI 48098-2815
USA
Tel. +1 248 655 8479
Fax +1 248 655 8255
e-mail:
mansour.ashtiani@delphiauto.com

Publications & Events Officer
Prof. Dr. Erich J. NEUHOLD, AT
University of Vienna
Faculty for Computer Science
Liebiggasse 4/3-4
A-1010 VIENNA
Austria
Tel. +43 1 4277 39630
e-mail: erich.neuhold@univie.ac.at

Financial Officer
Prof. Dr. Michael B. McGRATH, US/ACM
Colorado School of Mines
Engineering Department
2000 Little Raven St. 403
DENVER, CO 80202, USA
Tel. +1 303 383 5016
Fax: +1 303 273 3602
e-mail: mmcgrath@mines.edu

Communications Officer
Prof. Dr. Nadia MAGNENAT-THALMANN, CH
University of Geneva
Centre Univ. d'Informatique
24 rue Général Dufour
CH-1211 GENEVA 4, Switzerland
Tel. +41 22 705 7769 or 7770
Fax +41 22 705 7780
e-mail: thalmann@miralab.unige.ch

AR	Gabriela P. Henning	FI	Riitta Smeds	NL	Hamideh Afsarmanesh
AT	Man-Wook Han	FR	Rene Soenen*	NO	Kesheng Wang
AU	Christopher P. Avram	FR	Guy Doumeingts*	PL	Tadeusz Czachorski
CH	Philippe Dallemagne	GB	Umit Bititci*	PT	Luis Manuel Camarinha-Matos
CN	Renchu Gan	GB	Rae A. Earnshaw	RS	Ivica Mlađenović
CN	Tao Yu	HU	Gyorgy Kovacs	SE	Torsten Kjellberg
CZ	Marcel Jirina	IL	Gideon Halevi	SI	Ivan Rozman
DE	Ralf Denzer*	IN	Rattan K. Datta	US	Gustav Olling
DE	Detlef Kochan*	JP	Fumihiko Kimura	US	Jakob Vlietstra*
DK	Peter Falster	KR	Byoung-Kyu Choi	US	Michael Wozny*
ES	Gabriel Oliver Codina	MX	Noel Leon Rovira**		

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

WG5.1 - Information Technology in the Product Realization Process est. 2006

AIMS

To promote and encourage the advancement of computer methodologies and information technologies, by means of research and practice, for the purpose of designing and developing products, and for the purpose of designing, constructing and operating the processes that produce those products.

SCOPE

- Design theory
- Geometric Modeling and Feature-based Design
- Design for the Life Cycle
- Design Verification and Rapid Prototyping
- Digital Design and Manufacturing
- Robotics and Assembly
- Process and Operations Planning and Optimization
- Inspection, Testing and Measurements
- Artificial Intelligence Concepts related to Product Realization
- Integration Issues related to Product Realization
- Standards Issues related to Product Realization
- Workers in the Product Realization System
- Network-based Issues related to Product Realization
- Processes beyond Discrete Manufacturing

Chair

Prof. Dr. Michael WOZNY
JEC 6003
Rensselaer Polytechnic Institute
110 8th Street
TROY, NY 12180-3590
USA
Tel. +1 518 276 6089
Fax +1 518 276 4403
e-mail: woznym@rpi.edu

AU	John S. Gero
AU	Laszlo Nemes
AU	Peter Bertok
BR	Ricardo Rabelo
CA	Jean-Christopha Cuilliere
CH	Esther M. Gelle
CH	Hans-Werner Butz
DE	A. Storr
DE	Detlef Kochan
DE	Frank-L. Krause
DE	Jose L. Encarnacao
DK	Georg K. Christensen
FI	Martti Mantyla
FR	Bertrand T. David
FR	Jean P. Mermet
FR	Jean-Pierre Crestin
FR	Michel Veron
FR	R. Geudj
FR	Rene Soenen
GB	Ernest A. Warman
GB	John R. Crookall
GB	K. MacCallum
GB	Malcolm Sabin
GB	Mike Pratt
HU	Andras Markus
HU	George L. Kovacs
HU	J. Hermann
IL	Gideon Halevi
IL	Kenneth Preiss
IL	Moshe Shpitalni
IT	Gianni Jacucci
IT	Giorgio Valle
IT	Rinaldo C. Michelini
IT	S. Ansaldi
IT	Umberto Cugini
JP	Fumihiko Kimura
JP	H. Yoshikawa
JP	Toshiya Kaihara
KR	Byoung-Kyu Choi
NL	Hamideh Afsarmanesh
NL	Paul ten Hagen
NL	Tetsuo Tomiyama
NO	Frank Lillehagen
NO	Kesheng Wang
NO	Ketil Bo
NO	Leif Estensen
NO	Ziqiong Deng
PT	Luis M. Camarinha-Matos
SE	Torsten Kjellberg
SG	Chua Chee Kai
US	David Ben-Arieh
US	David C. Brown
US	Francis E. Plonka
US	Gustav J. Olling
US	Jean-Claude Latombe
US	M.B. Waldron
US	S.Y. Nof
US	Susan Finger

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

AIMS

- To contribute to identify the underlying scientific foundation of Computer Aided Innovation and also to evaluate their effectiveness and efficiency.
- 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.
- 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.
- To address the main motivations of the industrial sector, regarding the engineering innovation activity with computer tools and methods.
- To address the main motivations of the academic community regarding theoretical foundations of computer aided innovation.

SCOPE

- 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.

URL: http://www.computeraidedinnovation.net/

Chair
Prof. Dr. Noel LEÓN-ROVIRA
ITESM
Campus Monterrey
Ave. Eugenio Garza Sada
#2501 Sur
MX-CP64849 MONTERREY
Mexico
Tel: +52 81 8158 2012
e-mail: noel.leon@itesm.mx

Vice-Chair (Asia)
Prof. Dr. Tan RUNHUA
Hebei University of Technology
Institute of Design for Innovation
CN-TIANJIN, 300130
China
Tel: +86 22 2656 4037
e-mail: rhtan@hebut.edu.cn

Vice-Chair (Europe)
Dr. Gaetano CASCINI
Politechnic of Milan
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

Vice-Chair (USA)
Dr. Su Kyeong CHO
DaimlerChrysler Corp.
CAx Research & Technology
800 Chrysler Drive
AUBURN HILLS, MI 48326-2757
USA
Tel: +1 248 576 9721
Fax +1 248 576 2880
e-mail:
sc211@daimlerchrysler.com

Publication Officer
Ass. Prof. Denis CAVALLUCCI
INSA Graduate School of Science and Technology
Design Engineering Laboratory
24, Boulevard de la Victoire
FR-67084 STRASBOURG
France
Tel: +33 3 88 14 47 55
Fax +33 3 88 14 47 99
e-mail: denis.cavallucci@insa-strasbourg.fr

AU	Mary Lou Maher	ES	Joaquìm Lloveras Macià	US	John Gero
BR	Marco Aurelio de Carvalho	ES	Rosario Vidal	US	Sergei Ikovenko
CA	Nikolai Khomenko	FR	Roland De Guio	US	Peter Koen
CN	Liu Hong	GB	Darrell Mann	US	Don Masingale
DE	Albert Albers	KR	Seung-Hyun Yoo	US	Gopalan Mukundan
DE	Carsten Gundlach	MX	Alberto Hernández	US	Madara Ogot
DE	Andreas Jost	NL	Valeri Souchkov	US	Gustav J. Olling
DE	Hansjürgen Linde	SE	Tobias C. Larsson	US	Michael Slocum
DE	Pavel Livotov	US	Tomasz Arciszewski	US	John Terninko
DE	Michael Orloff	US	Mansour Ashtiani	US	Boris Zlotin
DE	Jivka Ovtcharova	US	Ellen Domb	US	Alla Zusman
DE	Eckhard Schüler-Hainsch	US	Susan Finger		

WG 5.5 - Cooperation Infrastructure for Virtual Enterprises and electronic Business - "COVE" 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.

SCOPE

- 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

URL: http://www.uninova.pt/~cove

Chair
Prof. Dr. Luis M. CAMARINHA-MATOS
Uninova
New University of Lisbon
Fac. Sciences and Technology
Quinta da Torre
PT-2829-516 MONTE CAPARICA
Portugal
Tel. +351 21 2948 517
Fax +351 21 2941 253
e-mail: cam@uninova.pt

Vice-Chair (Asia)
Prof.Toshiya KAIHARA
Kobe University
Graduate School of Engineering,
Div.of Computer
Science and Systems Engin.
1-1 Rokkodai-cho, Nada-ku
JP-KOBE 657-8501
Japan
Tel. +81 78 803 6086
e-mail:kaihara@cs.kobe-u.ac.jp

Vice-Chair (Europe)
Dr. Hamideh AFSARMANESH
University of Amsterdam
COLNET – Collaborative Networks Group
Computer Science Department
Kruislaan 419, MATRIX I
NL-1098 VA AMSTERDAM
The Netherlands
Tel. +31 20 525 7512/7464
Fax +31 20 525 7490/7419
e-mail: hamideh@science.uva.nl

Vice-Chair (USA)
Dr. Ricardo J. RABELO
Federal University of
Santa Catarina
DAS – Department of Automation and Systems
GSIGMA
PO Box 476
BR- FLORIANAPOLIS – SC
088040-900
Brazil
Tel. +55 48 331 9387 x 204
Fax +55 48 234 1519
e-mail rabelo@das.ufsc.br

AU	Peter Bertok	FR	Xavier Boucher	MX	Arturo Molina
BR	Ricardo Rabelo	FR	Francois Vernadat	PT	Americo Azevedo
BR	Rolando Vallejos	GR	Garyfallos Fragidis	PT	Goran Putnik
CA	Weiming Shen	GR	Adamantios Koumpis	PT	Luis Osorio
CH	Myrna Flores	HU	György L. Kovacs	PT	Jorge Pinho Sousa
CH	Michel Pouly	IT	Rinaldo C. Michelini	US	H. Ted Goranson
CR	Cesar Garita	IT	Roberto Santoro	US	Shimon Y. Nof
DE	Kurt Kosanke	MO	Tomasz Janowski		

WG5.7 - Integration in Production Management 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.

SCOPE

- 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

URL: http://www.dig.polimi.it/ifip-wg5-7/

Chair
Prof. Marco TAISCH
Politecnico di Milano
Dip. di Ingegneria Gestionale
P.zza Leonardo da Vinci, 32
IT-20133 MILANO
Italy
Tel. +39 02 2399 4815
Fax +39 02 2399 2700
e-mail: marco.taisch@polimi.it

Vice-Chairs
for Europe:
Prof. Dr. Kai MERTINS
IPK Berlin
Pascalstr. 8-9
DE-10587 BERLIN, Germany
Tel. +49 30 39 006233
Fax +49 30 39 32503
e-mail: kai.mertins@ipk.fhg.de

for America:
Prof. Thomas R. GULLEDGE,Jr
George Mason University
Enterprise Eng., MS 2E4
FAIRFAX, Virginia 22030-4444, USA
Tel. +1 703 993 3184
e-mail: gulledge@gmu.edu

for Asia-Pacific:
Prof. Susumu FUJI
Dep.of Mechanical Engineering
Faculty of Science & Techn.
Sophia University 7-1
Kio-cho, Chiyoda-ku
JP-TOKYO 102-8554, Japan
Tel./Fax: +81 3-3238-4123
e-mail: susumu-f@sophia.ac.jp

AT	Jürgen Dorn	FI	Kari Tanskanen	JP	Shigeki Umeda
AU	R.M. Kerr	FR	Frédérique Biennier	JP	Hiroyuki Yoshikawa
AU	William Powell Lewis	FR	Abdelaziz Bouras	KR	Jinwoo Park
AU	David Walters	FR	Guy Doumeingts	NL	Henk-Jan Pels
BE	Henri Muller	FR	Joel Favrel	NL	J. E. Rooda
BR	Claudio Walter	FR	Bruno Vallespir	NL	Jacques H. Trienekens
CH	Alfred Büchel	GB	Umit Bititci	NL	Hans Wortmann
CH	Dimitris Kiritsis	GB	Mike Bourne	NO	Bjorn Andersen
CH	Thomas E. Ruppli	GB	Allan S. Carrie	NO	Heidi C. Dreyer
CH	Paul Schönsleben	GB	Stephen Childe	NO	Jan Frick
CN	Renchu Gan	GB	Christopher Irgens	NO	Asbjörn Rolstadas
CN	Guang Xun Yang	GB	Harinder Singh Jagdev	NO	Jan Ola Strandhagen
CZ	Lenka Landryova	GB	Ashok K. Kochhar	PL	Tomasz Koch
DE	Siegfried Augustin	GB	David Little	PL	Edward T. Radosinski
DE	Bernd Hamacher	GR	Ioannis A. Pappas	PL	Krzysztof Santarek
DE	Bernd E. Hirsch	GR	Ilias Tatsiopoulos	PL	Stanislaw Strzelczak
DE	Volker Hornung	ID	Indra Djodikusumo	PT	Luis Manuel Camarinha-Matos
DE	Jan Peter Lechner	ID	Syahrum Razali	SE	Robert W. Grubbström
DE	Volker Stich	IE	Jim Browne	SE	Jan Olhager
DE	Klaus-Dieter Thoben	IL	Gideon Halevi	SE	Fredrik Persson
DE	Hans-Hermann Wiendahl	IT	Marco Garetti	TR	Gunduz Ulusoy
DE	Hans-Peter Wiendahl	IT	Alberto Portioli	US	Andrew Kusiak
DE	Gert Zülch	IT	Mario Tucci	US	Charles R. McLean
DK	Peter Falster	IT	Agostino Villa	US	John P. Shewchuk
DK	Hans-Henrik Hvolby	JP	Eiji Arai	US	Rainer A. Sommer
DK	John Johansen	JP	Masahiko Fuyuki	US	Kathryn E. Stecke
DK	Jens Ove Riis	JP	Ichiro Inoue	US	Richard Lee Storch
DK	Ken Steger-Jensen	JP	Toshiya Kaihara	US	Matt Williamson
FI	Eero Eloranta	JP	Masura Nakano	ZA	Nicolaas Deetlefs Du Preez
FI	Riitta Smeds				

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.

SCOPE

Activity1: 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
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

Chair
Prof. Dr. Guy DOUMEINGTS
Université Bordeaux1
LAPS / IMS
351 Cours de la Libération
FR-33405 TALENCE CEDEX
France
Tel. +33 607 05 73 52
Fax +33 540 00 31 32
e-mail: Guy.Doumeingts@ims-bordeaux.fr

Vice-Chair
Prof. Xiaofei XU
Harbin Institute of Technology
School of Computer Science & Technology
92 West Dazhi Street
CN-HARBIN 150001, P. R. China
Tel. +86 451 86413316
Fax +86 451 86413309
e-mail: xiaofei@hit.edu.cn

Secretary
Prof. Lea KUTVONEN
University of Helsinki
Department of Computer Science
FIN-00014 HELSINKI
Finland
Tel. + 358 9 191 51362
Fax + 358 9 191 51120
e-mail: Lea.Kutvonen@cs.Helsinki.FI

Prof. Kai MERTINS
Fraunhofer IPK
Pascalstrasse 8-9
DE-10587 BERLIN
Germany
Tel. +49 30 39 006233
Fax +49 30 39 32503
e-mail:
kai.mertins@ipk.fraunhofer.de

Prof. Pontus JOHNSON
Royal Institute of Technology (KTH)
School of Electrical Engineering
Osquldas väg 12, 7tr
SE-100 44 STOCKHOLM
Sweden
Tel. +46 8 790 6825
Fax +46 8 790 6839
e-mail: pj101@ics.kth.se

AT	Christian Fichtenbauer
AT	Georg Weichhart
BE	Patrick Heymans
BE	Johnny Huysentruyt
BE	Robert Meersman
BE	Pierre-Yves Schobbens
BG	Roumen Nikolov
CN	Tanya Tan
CN	Xiaoquing Tang
CN	Cuilian Zhao
DE	Thomas Fischer
DE	Reinhard Hutter
DE	Roland Jochem
DE	Stephan Kassel
DE	Kurt Kosanke
DE	Ulrike Lechner
DE	Jörg Müller
DE	Klaus-Dieter Naujok
DE	Sven-Volker Rehm
ES	Ricardo Chalmeta
ES	Luis Fernandez
ES	Raul Poler
ES	Inaki Zugasti
FR	Vincent Chapurlat
FR	David Chen
FR	Alexandre Dolgui
FR	Yves Ducq
FR	Parisa Ghodous
FR	Hervé Pingaud
FR	Colette Rolland
FR	Bruno Vallespir
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GB	Nick Dowler
GB	Ip-Shing Fan
GB	Antonis Kokossis
GB	Damian Mc Randal
GB	Bryan Wood
GR	Ioannis Kotsiopoulos
GR	Cristos Nikolaou
GR	Sakis Psonis
IE	Ken Halpin
IT	Pierluigi Assogna
IT	Alessandro D'Atri
IT	Piero De Sabbata
IT	Carlo di Vittorio
ME	Arturo Molina
NL	João Paulo Almeida
NL	Manfred Jeusfeld
NL	Paul Oude Luttighuis
NL	Marten van Sinderen
NL	Nel Wognum
NL	Hans Wortmann
NO	Andreas Opdahl
PT	Fatima Farinha
PT	Ricardo Goncalves
RU	Leonid Kalinichenko
SE	Paul Davidsson
SE	Kurt Sandkuhl
SE	Ruth Sommar
US	Isabel Cruz
US	Ted Goranson

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

AIMS

To promote and encourage the advancement of the field of computer graphics and virtual worlds and their applications in technology.

SCOPE

- Graphics Systems: Architectures and Workstations, User Interfaces, Graphics Interfaces, VLSI for Graphics.
- Graphics and CAD for Engineering and Scientific Applications: Electric, Electronic, Mechanical, Civil and Architectural Engineering, Robotics, Virtual Factories, Cartography, Transportation Systems, etc.
- Graphics Modelling and Rendering: Techniques of Data Capture, Curves and Surfaces Modelling, Surface and Volume Rendering, Simulation of Natural Phenomena.
- Graphics and Multimedia: Integration of Texts, Graphics, Vision, Video, Voice, Sound; Communication and Networking, Storage and Compression Techniques.
- Virtual Reality: Virtual Environments, 3D Interaction, Techniques of Immersion, Senseware, Teleoperation, Telepresence.
- Animating Virtual Worlds: Physics-Based Animation, Simulation of Articulated Bodies, Facial Animation and Virtual Communication.
- Modelling and Animating Human Beings for Medical Applications: Understanding anatomy through Virtual Bodies, Learning Surgeon Techniques on 3D Solid Modelled Humans.
- Artificial Life in Virtual Worlds: Autonomous Synthetic Actors, Behavioral Animation, Models of Decision-Making Processes, Simulation of Plants and Animals, Computer Viruses.

URL: http://miralabwww.unige.ch/~ifip/

Chair
Prof. Dr. Rae A. EARNSHAW
Univ.of Bradford
Dept. of Electronic Imaging
and Media Communications
Richmond Rd
BRADFORD, West Yorkshire
BD7 1DP, U.K.
Tel. +41 1 274 234 001
Fax +41 1 274 233 727
e-mail: r.a.earnshaw@bradford.ac.uk

Vice-Chair
Prof. Jose L. ENCARNACAO
Fraunhofer-Institut für
Graphische Datenverarbeitung
Rundeturmstr. 6
DE-64283 DARMSTADT,
Germany
Tel. +49 6151 155130
Fax +49 6151 155430
e-mail: jle@igd.fhg.de

AT	Hermann Maurer
BG	Stoyan Maleshkov
BE	Eddy Flerackers
BR	Leo P. Magalhaes
CH	Nadia Magnenat-Thalmann
CH	Peter Stucki
CH	Daniel Thalmann
CN	Jiaoying Shi
CN	Zesheng Tang
DE	Detlef Kochan
DE	Franz E. Wolter
DK	Niels Jorgen Christensen
ES	Pere Brunet
ES	Juan Flaquer
FI	Martti Mantyla
GB	Ken Brodlie
GB	Bob Hopgood
GB	Susan Laflin
HU	Miklos Bathor
IN	Sudhir P. Mudur
IN	Yogesh N. Shinde
IT	Fulvio Bresciani
IT	Giorgio P. Faconti
IT	Bianca Falcidieno
IT	Laura Moltedo
IT	Franco Pallavicini
JP	Tosiyasu L. Kunii
JP	Yasuhito Suenaga
KR	Sung Yong Shin
MX	Gerardo L. Lastra
NL	Paul ten Hagen
PT	Mario Rui Gomes
PT	Jose C. Teixeira
RU	Stanislav Klimenko
SE	Lars Kjelldahl
SG	Tat-Seng Chua
US	Haruhiko Asada
US	Norman Badler
US	Peter R. Bono
US	Steve Carson
US	Steve Cunningham
US	Georges G. Grinstein
US	Donald H. House
US	Arie Kaufman
US	Alex Pentland
US	Juris Reinfelds
US	Larry Rosenblum
US	Michael Wozny

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

AIMS
To investigate existing methods and applications of computer based technologies to environmental engineering, environmental protection, and environmental research.

SCOPE
- Monitoring and remote sensing of environmental variables.
- GIS and mapping systems.
- Natural resources conservation (land, water, noise ...).
- Hazardous waste management.
- Environmental impact assessment.
- Environmental information and decision support systems.
- Environmental AI applications.
- Cultural and artistic patrimony protection.

URL: http://www.enviromatics.org

Chair
Prof. Dr. David A. SWAYNE
University of Guelph
Dept. of Computing & Inf. Sc.
CA-GUELPH, ON, N1G 2W1
Canada
Tel. +1 519 824 4120 53411
Fax +1 519 837 0323
e-mail: dswayne@cis.uoguelph.ca

Vice-Chair
Dr. Robert ARGENT
Water Division
Bureau of Meteorology
Melbourne
AU-VICTORIA 3000
Australia
Tel: +61 3 86388207
Fax +61 3 86388200
e-mail: R.Argent@bom.gov.au

Secretary
Dr. Steven P. FRYSINGER
James Madison University
ISAT Department - MSC 4102
701 Carrier Drive
HARRISONBURG, VA 22807
USA
Tel: +540 568 2710
Fax: +540 568 2768
e-mail: frysinsp@jmu.edu

AT	Gerald Schimak	CH	Ioannis Athanasiadis	DE	Thomas Usländer
AT	Werner Pillmann	CZ	Jiri Hradec	GR	Kostas Karatzas
AU	Anthony Jakeman	CZ	Jiri Hrebicek	IT	Nazzareno Diodato
AU	John Norton	CZ	Jaroslav Racek	IT	Giorgio Guariso
BR	Virginia Brilhante	CZ	David Strnad	IT	Rodolfo Soncini-Sessa
CA	William Booty	DE	Ralf Denzer	MO	Chris George
CA	Daryl H. Hepting	DE	Ernst E. Doberkat	US	Daniel Ames
CA	David Lam	DE	Peter Fischer	US	Nigel Quinn
CA	Alexander Storey	DE	Reiner Guettler	ZA	Gavin Fleming
CH	Andrea Rizzoli	DE	Roman Lenz		

WG5.12 - Architectures for Enterprise Integration est.1995, rev. 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

SCOPE

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.

URL: http://www.cit.gu.edu.au/~bernus/ifip/WG5.12/

Chair
Prof. Dr. Peter BERNUS
Griffith University
School of Computing & Inf.
AU-NATHAN, Queensland 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 Techn.
LOUGHBOROUGH, Leicestershire, LE1 3TU, U.K.
Tel. +44 1509 222 907
Fax +44 1509 267 725
e-mail: r.h.weston@lut.ac.uk

AT	Peter Kopacek
AT	Norbert Rozsenich
AU	Laszlo Nemes
AU	Ljibisa Vlacic
CA	Fadi G. Fadel
CA	Mark Fox
CA	John Mylopoulos
CA	Ajit Pardasani
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DE	Matthias Jarke
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FR	David Chen
FR	Guy Doumeingts
FR	Joel Favrel
FR	Francois Vernadat
GB	John Edwards
GB	S.K. Banerjee
GB	David Shorter
HU	Geza Haidegger
HU	György L. Kovacs
IE	Jim Browne
IT	Marco Garetti
JP	Yoshiro Fukuda
JP	Atsushi Inamoto
JP	Yusaku ShibataArturo Molina
MX	Gutierrez
NO	Ziqiong Deng
PT	João José Pinto Ferreira
RO	Mihai Avram
RO	Florin Filip
SG	Cheng Leong Ang
SG	Sam Bansal
SI	Brane Kalpic
US	James Brosvic
US	Christoph J. Bussler
US	Michael Gruninger
US	Bruce Guthridge
US	Hong Li
US	Jim Nell
US	James Nevins
US	Leo Obrst
US	Jakob Vlietstra
US	Theodore J. Williams

TC 6 (COMMUNICATION SYSTEMS) est. 1971, revised 1987 and 1991

AIMS

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

SCOPE

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.

URL: http://www.ifip.tu-graz.ac.at/TC6/

Chair
Prof. Dr. Guy LEDUC, BE
Université de Liège EECS Department
Research Unit in Networking (RUN)
Institut d'Electricité Montéfiore
Bât. B28
BE-4000 LIEGE 1
Belgium
Tel. +32 4 366 2698
Fax +32 4 366 2989
e-mail: guy.leduc@ulg.ac.be

Vice-Chair
Prof. Ramon PUIGJANER, ES
Univ. de les Illes Balears
Departament de Ciencies Matem. i Informatica
Carretera de Valldemossa km 7.5
ES-07071 PALMA DE MALLORCA, Spain
Tel. +34 9 7117 3288
Fax +34 9 7117 3003
e-mail: putxi@uib.es

Secretary
Dr. Peter RADFORD, GB
Logica CMG
Stephenson House
75 Hampstead Road
LONDON NW1 2PL, UK
Tel. +44 20 7446 1281
e-mail: peter.radford@logicacmg.com

Special Consultant
Dr. Harry RUDIN, CH
IBM Zurich Research Laboratory
Säumerstrasse 4
CH-8803 RÜSCHLIKON
Switzerland
Tel. +41 44 720 3707
e-mail: hr@zurich.ibm.com

AD	Miquel Nicolau I Villa
AT	Guenter Haring
BE	Andre Danthine*
BG	Kiril Boyanov
BR	Jose Neuman de Souza
CA	Raouf Boutaba**
CA	Lorne G. Mason
CH	Harry Rudin
CLEI	Benjamin Barán
CZ	Robert Bestak
DE	Otto Spaniol
DK	Villy Baek Iversen
FI	Matti Latva-aho
FR	Louis Pouzin*
FR	Guy Pujolle
GR	Ioannis Stavrakakis
HU	Sarolta Dibuz
HU	Tibor Szentivanyi*
IN	S.V. Raghavan
JP	Tadao Saito
NL	Ignatius G.M.M. Niemegeers
NO	Finn Arve Aagesen
OM	Ahmed Al-Naamany
PL	Adam Grzech
PT	Augusto Casaca
SE	Dipak Khakhar
SG	Francis Lee Bu Sung
TH	Vilas Wuwongse
TN	Farouk Kamoun (Obs.)
US	A .Lyman Chapin (ACM)
US	Arun Iyengar (IEEE)
ZA	Pieter Kritzinger
ZW	Jean Whiley

ex-officio members: WG Chairs
*) honorary member

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.

SCOPE

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.

URL: http://www.run.montefiore.ulg.ac.be/IFIP/

Chair
Prof. Dr. Elie NAJM
ENST
Networks and Computer
Science Department
46, rue Barrault
FR-75013 PARIS Cedex 13
France
Tel. +33 1 4581 7709
Fax +33 1 4581 3119
e-mail: elie.najm@enst.fr

Vice-Chair
Prof. Dr. John DERRICK
University of Sheffield
Dept. of Computer Science
Regent Court
211 Portobello Street
SHEFFIELD S1 4DP, UK
Tel. +44 114 22 21800
Fax +44 114 22 21810
e-mail: j.derrick@dcs.shef.ac.uk

AU	Kerry Raymond	ES	David de Frutos Escrig	IT	Alessandro Fantechi
BE	Guy Leduc	FI	Lea Kutvonen	IT	Roberto Gorrieri
CA	Gregor v. Bochmann	FI	Martti Tienari	IT	Diego Latella
CA	Luigi Logrippo	FR	Stan Budkowski	JP	Teruo Higashino
CA	Alexandre Petrenko	FR	Ana Rosa Cavalli	KR	Myungchul Kim
CA	Jacob Slonim	FR	Michel Diaz	NL	Ed Brinksma
CH	Rachid Guerraoui	FR	Roland Groz	PL	Piotr Dembinski
CH	Harry Rudin	GB	Gordon Blair	PL	Krysztof Zielinski
DE	Dieter Hogrefe	GB	Howard Bowman	US	Vinton Cerf *
DE	Stefan Fischer	GB	Joe Sventek	US	Gerard J. Holzmann
DE	Kurt Geihs	GB	Ken J. Turner	US	Peter Honeyman
DE	Reinhard Gotzhein	HK	Samuel Chanson	US	Carolyn Talcott
DE	Hartmut Koenig	HU	Sarolta Dibuz	US	Richard L. Tenney
DE	Stefan Leue	HU	Katalin Tarnay	ZA	Pieter S. Kritzinger
DE	Jan de Meer	IT	Tommaso Bolognesi		

*) honorary member

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

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 and on the integration of all present and future technologies for physical and data link layer.

SCOPE

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 of local area networks, wide area networks, access networks, mobile IP networks, internetworking.
- Network Protocols: including transport and network layer protocols, IP and ATM integration, IP and ATM mappings on the lower layers, Multi Protocol Label Switching.
- 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.

URL: http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

Chair

Prof. Dr. Georg CARLE
University of Tuebingen
Wilhelm-Schickard-Institute for
Computer Science
Sand 13
DE-72076 TUEBINGEN
Germany
Tel. +49 7071 29 70505
Fax +49 7071 29 5220
e-mail: carle@uni-tuebingen.de

AT	Helmut Leopold
AT	Reinhard Posch
AU	Aruna Seneviratne
BE	Andre Danthine
BE	Guy Leduc
BR	Otto Carlos M. Duarte
BR	Jose Neuman de Souza
CA	Raouf Boutaba
CA	Nicolas D. Georganas
CA	Andre Girard
CH	Torsten Braun
CH	Werner Bux
CH	Jean-Yves Le Boudec
CH	Burkhard Stiller
DE	Wolfgang Effelsberg
DE	Paul J. Kuehn
DE	Radu Popescu-Zeletin
DE	Erwin P. Rathgeb
DE	Otto Spaniol
ES	Jordi Domingo-Pascual
ES	Ramon Puigjaner
FI	Olli Martikainen
FR	Jean Pierre Coudreuse
FR	Serge Fdida
FR	Gerard Hebuterne
FR	Daniel Kofman
FR	Guy Pujolle
FR	James Roberts
FR	Samir Tohme
GB	David Hutchison
GB	Demetres D. Kouvatsos
GR	V. Pronototarios
GR	Ioannis Stavrakakis
HK	Danny Tsang
IN	S.V. Raghavan
IT	Marco Ajmone Marsan
IT	Marco Conti
IT	Luigi Fratta
IT	Giorgio Ventre
JP	Tadao Saito
JP	Yutaka Takahashi
MA	Amine Benkiran
PL	Andrzej Jajszczyk
PT	Augusto Casaca
PT	Serafim Nunes
PT	Joao Rodrigues
SE	Miklos Boda
SE	Dipak Khakhar
SE	Ulf Koerner
SG	Lorne G. Mason
TH	Arnon Tubtiang
TN	Farouk Kamoun
US	Andrew T. Campbell
US	Mario Gerla
US	Bijan Jabbari
US	Marjory J. Johnson
US	Harry G. Perros
US	Catherine Rosenberg
US	James P.G.Sterbenz
US	Fouad Tobagi
US	C-K. Toh

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

AIMS

To improve the state of the art in the performance evaluation of new and existing communication systems.

SCOPE

- Analysis of the performance (i.e. throughput, response time, buffer occupancy distribution, etc.) of various aspects of current communication networks, such as IP and ATM networks, wireless networks, and LANs/MANs.
- Congestion and call admission control in communication systems.
- Performance evaluation of future high-speed networks as they would be deployed over optical switching networks.
- Performance evaluation of internetworking devices.
- Performance analysis of protocol enhancement for LANs/MANs.
- Traffic characterization of existing and future networks.
- Monitoring and tuning communication systems, for better performance.
- Knowledge acquisition for performance evaluation of communication systems.
- Development of relevant performance evaluation techniques, as motivated by real-life communication systems.
- Understanding the performance of communication software systems as they interact with kernels, and applications such as multimedia.

URL: http://www4.ncsu.edu/eos/users/h/hp/WWW/

Chair

Prof. Dr. Ioannis STAVRAKAKIS
University of Athens
Communication Networks Lab
Dept.of Inf. & Telecommunications
Panepistimiopolis, Ilissia
GR-15784 ATHENS
Greece
Tel. +30 210 727 5343
Fax +30 210 727 5333
e-mail: ioannis@di.uoa.gr

AT	Guenter Haring
BE	Chris Blondia
BE	Herwig Bruneel
BR	Nelson L. S. Fonseca
BR	Luis Felipe M. de Moraes
BR	Edmundo de Souza e Silva
CA	Alberto Leon-Garcia
CA	Kenneth C. Sevcik
CH	Ilias Iliadis
CH	Jean-Yves Le Boudec
CY	Andreas Pitsillides
DE	Boudewijn R. Haverkort
DE	Paul J. Kuehn
DE	Martin Reiser
DE	Otto Spaniol
DE	Phuoc Tran-Gia
EG	Khaled Fouad Elsayed
ES	Olga M. Casals
ES	Sebastia Galmes
ES	Ramon Puigjaner
FI	Jorma Virtamo
FR	Tulin Atmaca
FR	Pierre Boyer
FR	Serge Fdida
FR	Jacques Labetoulle
FR	Raymond Marie
FR	Guy Pujolle
FR	James Roberts
GB	Peter Key
GB	Demetres D. Kouvatsos
GR	Kimon Kontovasilis
GR	Nikolas M. Mitrou
HU	Tamas Henk
HU	Sandor Molnar
IL	Israel Cidon
IL	Raphael Rom
IL	Moshe Sidi
IT	Marco Conti
IT	Domenico Ferrari
IT	Luigi Fratta
IT	Stefano Giordano
JP	Konosuke Kawashima
JP	Hideaki Takagi
JP	Yutaka Takahashi
NL	Hans van den Berg
NO	Bjarne E. Helvik
PL	Jozef Lubacz
PL	Michal Pioro
SE	Miklos Boda
SE	Johan Karlsson
SE	Ulf Koerner
TN	Farouk Kamoun
TR	Cem Ersoy
TW	Jin-Fu Chang
US	Ian F. Akyildiz
US	Imrich Chlamtac
US	Tony Ephremides
US	Andras Farago
US	Erol Gelenbe
US	Mario Gerla
US	Jim Kurose
US	Jon W. Mark
US	Debasis Mitra
US	Arne Nilsson
US	Raif O. Onvural
US	Harry G. Perros
US	Catherine Rosenberg
US	John Silvester
US	William J. Stewart
US	Don Towsley
US	Satish K. Tripathi
US	Kishor S. Trivedi
US	Yannis Viniotis
ZA	Pieter S. Kritzinger

WG6.4 - Internet Applications Engineering est. 1979, revised 1991, 1996, 2001

AIMS

To investigate and report on Internet applications which typically reside above the IP level, encompassing World Wide Web applications.

SCOPE

This Working Group provides a framework for the launching and the organization of activities in the area of Internet applications engineering, including:

- Applications: agent technologies, distributed games, hypertext and hypermedia, multimedia on the Web.
- Infrastructure: audio/video/voice coding for Internet services, Internet security, multicast, searching and querying, virtual private networks, Web navigation strategies.
- Performance: caching, quality of service, scalability aspects, traffic characterization.

URL: http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

Chair

Prof. Dr. Schahram DUSTDAR
Vienna University of Technology
Distributed Systems Group
Director of Vita Lab
Argentinierstrasse 8/184-1
AT-1040 VIENNA
Austria
Tel. +43 1 58801 18414
Fax +43 1 58801 18491
e-mail: dustdar@infosys.tuwien.ac.at

AU	Anne Marie Vercoustre	FR	Guy Pujolle	TH	Vilas Wuwongse
AU	Yanchun Zhang	GB	Helen Ashman	US	Andrei Broder
CA	Nicolas D. Georganas	GR	Christos Bouras	US	Yih-Farn Robin Chen
CA	Alberto O. Mendelzon	IE	Cormac J. Sreenan	US	Fred Douglis
CN	Michael R. Lyu	IT	Fabio Vitali	US	Arun Iyengar
DE	Stephan Fischer	JP	Katsuo Ikeda	US	Doug Tygar
ES	Leandro Navarro	NL	Ivan Herman	US	Werner Vogels
ES	Ana Pont-Sanjuán	PL	Wojciech Cellary	US	Mary Ellen Zurko

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.

SCOPE

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.

URL: http://bcr2.uwaterloo.ca/ifip

Chair
Prof. Dr. Aiko PRAS
University of Twente
Electrical Engineering, Mathematics and Computer
Science
P.O. Box 217
NL-7500 ESCHEDE
The Netherlands
Tel. + 31 53 4893778
Fax + 31 53 4894524
e-mail: pras@cs.utwente.nl

Vice Chair
Mr. 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

AU	G. Chen
AU	Pradeep Kumar Ray
BR	Jose Neuman de Souza
BR	José Marcos Silva Nogueira
BR	Carlos Becker Westphall
CA	Omar Cherkaoui
CA	Raouf Boutaba
CA	Ahmed Karmouch
CA	Martin Karsten
CA	Gary Kenward
CA	Hanan Lutfiyya
CA	Jean-Philippe Martin-Flatin
CH	Metin Feridun
CH	Burkhard Stiller
CN	J. Zeng
DE	Marcus Brunner
DE	Gabi Dreo-Rodosek
DE	Kurt Geihs
DE	Heinz-Gerd Hegering
DE	Peer Hasselmeyer
DE	Hiroyuki Okazaki
DE	Jürgen Quittek
DE	Ralf Steinmetz
DE	Jürgen Schoenwaelder
DE	Wolfgang Zimmer
ES	Joan Serrat
FR	N. Agoulmine
FR	Ahmed Mehaoua
FR	Guy Pujolle
FR	Michelle Sibilla
GB	David Hutchison
GB	Antonio Liotta
GB	Emil C. Lupu
GB	Alan Marshall
GB	Dave Milham
GB	Gerard Parr
GB	George Pavlou
GB	Morris Sloman
GR	George Kormentzas
IE	William Donnelly
IE	Vincent P. Wade
IL	Danny Raz
IT	Enrico Bagnasco
IT	Enrico Ronco
IT	Roberto Saracco
JP	Masayoshi Ejiri
JP	Satoshi Hasegawa
JP	Yoshiaki Tanaka
JP	Makato Yoshida
KR	James Won-Ki Hong
KR	Seong-Beom Kim
KR	Young-Tak Kim
KR	Jong-Tae Park
MA	M. Erradi
NO	Mark Burgess
SG	Chen Khong Tham
US	Kevin Almeroth
US	Ehab Al-Shaer
US	Nikos Anerousis
US	Mohammed Atiquzzaman
US	Claudio Bartolini
US	Joseph Betser
US	Greg Brewster
US	Nevil Brownlee
US	Paul J. Brusil
US	Serephin Calo
US	Thomas M. Chen
US	Alexander Clemm
US	Young Bae Choi
US	Roberta S. Cohen
US	German Goldszmidt
US	Shri K. Goyal
US	Takeo Hamada
US	Masum Hasan
US	Joseph L. Hellerstein
US	Ahmed Helmy
US	C. Hood
US	Gabriel Jakobson
US	Gautam Kar
US	Alexander Keller
US	Aurel A. Lazar
US	Lundy Lewis
US	Kenneth J. Lutz
US	Manu Malek
US	J. Scott Marcus
US	Subrata Mazumdar
US	Deep Medhi
US	Giovanni Pacifici
US	Edward L. Pinnes
US	Christian Rad
US	Akhil Sahai
US	Veli Sahin
US	Adarshpal S. Sethi
US	Chien-Chung Shen
US	Rolf Stadler
US	John Strassner
US	Mehmet Ulema
US	John Vicente
US	Jim Warner
US	Robert Weihmayer
US	Bert Wijnen
US	S. Felix Wu
US	Yechiam Yemini
US	Alaa Youssef
US	Douglas N. Zuckerman
ZA	Jan Roos

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.

SCOPE

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.

URL: http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

Chair
Prof. Dominique GAITI
Univ. de technologie Troyes
Inf. Syst. Engineering Dept.
12 rue Marie Curie, BP 2060
FR-10010 TROYES Cedex
France
Tel. +33 3 2571 5685
Fax +33 3 2571 5699
e-mail: dominique.gaiti@utt.fr

Vice-Chair
Dr. Reda REDA
Information Communication
Technologies ICTmc
Technology Centre
Ludwig Boltzmannstr.2
AT-7100 NEUSIEDL
Austria
Tel. +43 676 491 5503
e-mail: reda@ictmc.com

BR	Joaquim Celestino Jr.	FI	Olli Martikainen	IE	Claire Fahy
BR	Mauro Fonseca	FI	Kimmo Raatikainen	IE	Sven Van der Meer
BR	José Neuman	FR	Alessandro Bassi	JP	Yutaka Takahashi
BR	Manoel Penna	FR	Prosper Chemouil	NO	Finn Arve Aagesen
CH	Monique Callisti	FR	Francine Krief	NO	Mark Burgess
CH	Bernhard Plattner	FR	Guy Pujolle	NO	Terje Jensen
CA	Omar Cherkaoui	FR	Martin Vigoureux	OM	Ahmed Naamany
CA	Ahmed Karmouch	GB	Alex Galis	SE	Ulf Korner
DE	Georg Carle	GB	Alan Marshall	SE	Rolf Stadler
DE	Hartmut Koenig	GB	Joe Sventek	TH	Vilas Wuwongse
DE	Thomas Magedanz	GR	Nancy Alonistioti	US	Henning Schulzrinne
DE	Plamen Simeonov	GR	Spiros Denazis	US	John Strassner
ES	Joan Serrat	IE	Simon Dobson	US	John Vicente

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.

SCOPE

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.

URL:http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

Chair
Dr. Pedro CUENCA
Universidad de Castilla la Mancha
Departamenta Informática ICLM
Escuela Politécnica Superior de Albacete
ES-02071 ALBACETE
Spain
Tel. +34 967 5999308
Fax +34 967 599224
e-mail: pedro.cuenca@uclm.es

Vice-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@pd.gda.pl

BR	Otto Duarte	FR	Khaldoun Al Agha	JP	Takeshi Hattori
CH	Pierre Chevillat	FR	Ousmane Kone	JP	Tadao Saito
CH	Silvia Giordano	FR	Pascal Lorenz	KR	Yongho Seok
CZ	Jan Slavik	FR	Guy Pujolle	MY	Sathish Chandran
DE	Otto Spaniol	FR	Samir Tohme	NL	Sonia Heemstra de Groot
DE	Adam Wolisz	HU	Andras Gergely Valko	NL	Ignatius G. M. Niemegeers
DK	Villy Baek Iversen	IN	Debashis Saha	PL	Jozef Wozniak
FI	Veikko Hara	IT	Marco Conti	US	Arup Acharya
FI	Olli Martikainen	IT	Franco Davoli	US	Guy Omidyar

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.

SCOPE
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.

URL:http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

Chair
Prof. Ana PONT-SANJUÁN
Universidad Politécnica de Valencia
Departament d'Informática de Sistemes i Computadors
Camino de Vera, s/n.
ES-46022 VALENCIA
Spain
Tel. +34 963 879 215
Fax +34 963 877 579
e-mail: apont@disca.upv.es

Vice Chair
Dr. Mieso DENKO
University of Guelph
Dept.of Computing and Information Science,
CA-N1G 2W1 ONTARIO
Canada
Tel. + 1 416 798 1331
Fax + 1 416 798 3293
e-mail: denko@cis.uoguelph.ca

AD	Miquel Nicolau I Vila	CA	Raouf Boutaba	GB	Siraj Ahmed Shaikh
AE	Greg Kelaart-Courtney	CLEI	Benjamin Barán	GR	Dimitris Varoutas
AR	Rodrigo Santos	DK	Villy Baek Iversen	IN	S.V. Raghavan
BR	Jose Neumann de Souza	ES	Ramon Puigjaner	PT	Augusto Casaca

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.

SCOPE
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.

URL: http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

Chair
Dr. Ioannis TOMKOS
Athens Inform. Technology Center
19,5 Markopoylo Avenue
P.O.Box 68, Peania
GR-19002, ATHENS
Greece
Tel. +30 210 6682771
Fax +30 210 6682703
e-mail: itom@ait.gr

Vice-Chair
Dr. Josep SOLÉ-PARETA
Univ. Politècnica de Catalunya
Computer Architecture Dept.
C/. Jordi Girona, 1-3
Mòdul D6 (Campus Nord)
ES-08034 BARCELONA
Spain
Tel. +34 93 401 6982
Fax +34 93 401 7055
e-mail: pareta@ac.upc.edu

AT	Harmen R. van As	HU	Tibor Cinkler	US	Jason P. Jue
CA	Lorne G. Mason	IT	F. Neri	US	Eytan Modiano
CA	Hussein T. Mouftah	IT	Achille Pattavina	US	Biswanath Mukherjee
DK	Lars Dittman	IT	Roberto Sabella	US	Harry Perros
FR	Maurice Gagnaire	US	Rudra Dutta	US	Galen Sasaki
GB	Dimitra Simeonidou	US	Andrea Fumagalli	US	Arun Somani
GR	Alexander Stavdas				

WG6.11 Electronic Commerce - Communication Systems est. 2000, revised 2001

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 an open trading environment.

SCOPE

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.

URL: http://ifip6-11.informatik.uni-hamburg.de/

Co-Chair
Prof. Wojciech CELLARY
The Poznan University of Economics
Department of Information Technology
Mansfelda 4
PL-60-854 POZNAN
Poland
Tel. +48 61 848 0549
Fax +48 61 848 3840
e-mail: cellary@kti.ae.poznan.pl

Co-Chair
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

Co-Chair
Prof. Reima SUOMI
Turku School of Economics and Business Administration
Information Systems Science
Rehtorinpellonkatu 3
FI-20500 TURKU
Finland
Tel. +358 2 4814 409
e-mail: reima.suomi@tse.fi

AT	Roland Traunmüller	CN	Weijun (Joe) Wang	GR	Lefkada Papacharalambous
AU	Zoran Milosevic	CN	Ruixian Yang	GR	Despina Polemi
BE	Andre Danthine*	CN	Jing Zhao	GR	Spyridon Papastergiou
BE	Dirk Deschoolmeester	CN	Rongying Zhao	GR	Aphrodite Tsalgatidou
BR	Americo N. Amorim	CT	Bo Meng	HU	Tibor Szentivanyi*
BR	Manuel J. Mendes	DE	Markus Bick	JP	Motohisa Funabashi
CH	Dimitri Konstantas	DE	Melanie Bicking	JP	Ryoichi Sasaki
CH	Reinhard Riedl	DE	Rüdiger Grimm	JP	Kyoko Yamori
CH	Katarina Stanoevska-Slabeva	DE	J. Felix Hampe	MY	Kok-Wai Chew
CH	Hans-Dieter Zimmermann	DE	Irene Krebs	NL	Hans Weigand
CL	Narciso Cerpa	DE	Kai Rannenberg	PT	Carlos Alberto
CN	Lei Cheng	DE	Paula Swatman	PT	Jose Machado
CN	Jie Huang	DE	Volker Tschammer	PT	Jose Neves
CN	Benxi Lao	DE	Maria Wimmer	SE	Regis Cabral
CN	Chen Ming	FI	Hongxiu Li	SE	Dipak Khakhar
CN	Zwachao Sun	FI	Harri Oinas-Kukkonen	TN	Farouk Kamoun
CN	Chun-hui Tan	FR	Louis Pouzin*	US	Rolf T. Wigand
CN	Haishan Tian	GB	Santosh K. Shrivastava	ZA	Koos Koen

*) honorary member

TC 7 (SYSTEM MODELING AND OPTIMIZATION) est. 1972

AIMS

1. 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;
2. 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;
3. 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.

SCOPE

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.

URL: http://www.math.Virginia.EDU/~ifip

Chair
Dr. Jacques HENRY, FR
IMB, Université Bordeaux 1
INRIA Bordeaux Sud Ouest
351, cours de la libération
FR-33405 TALENCE Cedex
France
Tel. +33 5 4000 3448
Fax +33 5 4000 6950
e-mail: jacques.henry@inria.fr

Vice-Chair
Prof. Irena LASIECKA,
US/ACM
University of Virginia
Dept. of Mathematics
Kerchof Hall
CHARLOTTESVILLE
VA 22901, USA
Tel. +1 434 924 8896
Fax +1 434 982 3084
e-mail: il2v@virginia.edu

AR	Hugi D. Scolnik	DE	Fredi Troeltzsch	NL	Adrie J.M. Beulens
AT	Alfred Kalliauer	DK	Alain Larsen	PL	Lukasz Stettner
BE	Philippe Toint	ES	Josep Casanovas	PT	Joaquim João de Alarcão Júdice
BG	Peter Kenderov	FI	Raimo P. Hämäläinen	RS	Čedomir Milenković
BR	Edmundo de Souza e Silva	GB	M. Powell*	RU	Yury G. Evtushenko
CH	P. Kall*	GB	Stefan Scholtes	SG	Kok Chuan Ng
CH	Hans-Jakob Luethi	GR	Spiro Likothanassis	SI	Lidija Zadnik Stirn
CLEI	Hector Cancela	HU	Janos Szelezsan	SK	Baltazar Frankovic
CN	Junde Song	IT	Gianni di Pillo	US	A.V. Balakrishnan*
CZ	Jiri Outrata	JP	Hisao Kameda	US	Sanjay Ranka (IEEE)
DE	Josef Stoer*				

ex-officio members: WG Chairs
*) honorary member

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.

SCOPE
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.

Chair
Prof. Arunabha BAGCHI
University of Twente
Dept. Applied Mathematics
P.O. Box 217
NL-7500 AE ENSCHEDE Netherlands
Tel. +31 53 4893406
Fax +31 53 4340733
e-mail: a.bagchi@math.utwente.nl

BE	Tom Dhaene	US	A.V. Balakrishnan	US	J. Meditch
IT	Gottfried Koch	US	N. De Claris	US	Firdaus Udwadia
IT	A. De Santis	US	R. Leland	ZA	P.J. Vermeulen
LT	N. Telksnys	US	Ravi R. Mazumdar	ZA	Cobus Nel

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.

SCOPE
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.

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

Chair
Prof. Jean Paul ZOLESIO
CNRS research director
INRIA, projet OPALE
2004 route des lucioles
FR-06902 SOPHIA ANTIPOLIS Cedex, France
Tel. +33 492 38 7163
Fax +33 492 38 7980
e-mail: jean-paul.zolesio@sophia.inria.fr

Vice-Chair
Prof. Fredi TROELTZSCH
Technische Universitaet Berlin
Inst. f. Mathematik
Sekr. MA 4-5
Strasse d. 17. Juni 135
DE-10623 BERLIN, Germany
Tel. +49 30 314 79 688
Fax +49 30 314 78 658
e-mail: troeltzsch@math.tu-berlin.de

Secretary
Prof. John CAGNOL
University Leonard de Vinci
ESILV, DER CS
FR-92916 PARIS LA DEFENSE Cedex, France
Tel. +33 1 4116 7188
Fax +33 1 4116 7171
e-mail: john.cagnol@devinci.fr

AT	Michael Hintermueller	ES	Jesus Diaz	PL	Ngoc Tanh Nguyen
AT	Walter Ring	ES	Luis Fernandez	RO	Dan Tiba
CA	M.C. Delfour	FR	Maitine Bergounioux	RU	R. Curtain
CN	Jiongmin Yong	FR	Pierre Dubois	RU	A. Kurzhanski
DE	Michael Hinze	FR	Jaques Henry	RU	Slava Maksimov
DE	K. Hoffman	FR	Jean-Pierre Raymond	UA	Igor Chueshov
DE	W. Krabs	FR	J. Sokolowski	US	George Avalos
DE	Günter Leugering	FR	Judith Vancostenoble	US	Matthias Eller
DE	Jürgen Sprekels	FR	J.P. Yvon	US	Roland Glowinski
DE	Michael Ulbrich	IT	Francesca Bucci	US	W. Hager
DE	Stefan Ulbrich	IT	G. Da Prato	US	Alexander Khapalov
ES	A. Bermudez	IT	U. Mosco	US	Irena Lasiecka
ES	E. Casas	IT	Luciano Pandolfi	US	Seenith Sivasundaram

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.

SCOPE
- 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.

Chair
Prof. Edmundo de SOUZA e SILVA
Fed. Univ.of Rio de Janeiro
Graduate School & Research in Eng.
System Eng. &
Computer Science
Caixa postal 68511
RIO DE JANEIRO,
RJ 21941-972, Brazil
Tel. +55 21 2562 8668
Fax +55 21 2562 8676
e-mail: edmundo@land.ufrj.br

Vice-Chair
Dr. Philippe NAIN
INRIA Sophia Antipolis
2004 route des Lucioles
BP 93
FR-06902 SOPHIA ANTIPOLIS
France
Tel. +33 4 9238 7896
Fax +33 4 9238 7858
e-mail: nain@sophia.inria.fr

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

AT	Günter Haring
BE	Pierre-Jacques Courtois
BE	Guy Latouche
CA	Derek L. Eager
CA	Johnny W. Wong
CA	Murray Woodside
CH	Werner Bux
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US	Iraj Saniee
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US	Mark S. Squillante
US	William J. Stewart
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US	Satish K. Tripathi
US	Kishor S. Trivedi
US	Mary K. Vernon
US	Ward Whitt
US	David D. Yao
US	John Zahorjan
ZA	Pieter S. Kritzinger

WG7.4 - Discrete Optimization est. 1986

AIMS and SCOPE

- to promote theoretical contributions on the fundamental issues of discrete mathematics, such as graph theory, finite algebras, polyhedral combinatorics, discrete probability, etc.;
- to promote methodogical contribution on specific fields of discrete optimization like topological network design, network optimization problems, scheduling and routing, game theory, combinational problems on graphs, etc.;
- to encourage the exchange of information and the cooperation between algorithms designers and computer scientists on the issues of problem solving and artificial intelligence;
- to promote the definition of standards for combinatorial optimization algoriths software production;
- to promote the definition of standards for combinatorial optimization software performance evaluation.

URL: http://www.math.tu-bs.de/ifip/welcome.html

Chair
to be determined

AT	Rainer Ernst Burkard
BE	Yves Crama
BR	Carlos Eduardo Ferreira
BR	Celso C. Ribeiro
BY	Vyacheslav S. Tanaev
CA	Gilbert Laporte
CA	Thomas McCormick
CA	Maurice Queyranne
CH	Thomas M. Liebling
FR	Catherine Roucairol
FR	Luk N. van Wassenhove
GB	Martin Anthony
GB	Nicos Christofides
HU	Gábor Galambos
HU	Andras Recski
IL	Martin Charles Golumbic
IL	Ron Shamir
IT	Stefano Pallottino
NO	Stein W. Wallace
PL	Jazek Blazewicz
PL	Marek Libura
PL	Maciej M. Syslo
RU	Boris Cherkassky
US	Phipps Arabie
US	Egon Balas
US	Endre Boros
US	Gerard P. Cornuejols

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FR	Denis Naddef				

WG7.5 - Reliability and Optimization of Structural Systems est. 1986

AIMS and SCOPE

- 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.

Chair
Prof. Luis ESTEVA
Ciudad Universitaria D.F.
Instuto de Ingenieria, UNAM
Apartado Postal 70-472
COYOACAN 04510
Mexico
e-mail: LEstevaM@iingen.unam.mx

Vice-Chair
Prof. Mitsuo KAWATANI
Kobe University
Department of Civil Engineering
1-1 Rokkodai
NADA, KOBE 657-8501
Japan
e-mail: m-kawa@kobe-u.ac.jp

AU	R.E. Melchers	IT	Fabio Biondini	PL	P. Sniady
CA	Marc A. Maes	IT	A. Bori	PL	Zbigniew Zembaty
CA	Mahesh D. Pandey	IT	Marcello Ciampoli	PT	C. Guedes Soares
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HK	Navil Shetty	NL	Jan M. van Noortwijk	US	Y. K. Wen
IT	W. Tang	NL	P. Waarts	ZA	Radoslaw Iwankiewicz
IT	G. Augusti	PL	Stefan Jendo		

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

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
BE H. Artiba
CA Theodor Gabriel Crainic
CA D. Ionescu
DE Manfred Grauer
DE T. Gruenert
DE Herbert Kopfer
DE Hans Jürgen Sebastian
DE Helena Szczerbicka
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JP Yoshiteru Nakamori
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LB M. Salameh
LT A. Zilinskas
NL Adrie J.M. Beulens
PL M. Makowski
PL C. Orlowski
PL Toczylowski
PL Andrzej Wierzbicki
US Alexander Bordetsky
US T. Bui

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.

SCOPE
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.

URL: http://www.unibw-muenchen.de/campus/LRT/LRT1/MARTI/IFIP/wg7_7.html

Chair
Prof. Kurt MARTI
Federal Armed Forces Univ. Munich
Aero-Space Engin. & 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
BE	Francois Louveaux
BE	Yves Smeers
CH	Karl Frauendorfer
CH	Peter Kall
CH	Janos Mayer
CN	Jinde Wang
CU	Carlos Bouza
CZ	Tomas Cipra
CZ	Jitka Dupacova
DE	Werner Römisch
EE	Riho Lepp
GB	Michal A. H. Dempster
IT	Wolfgang J. Runggaldier
LT	Jonas Mockus
NL	W.K. Klein Haneveld
NL	Maarten H. van der Vlerk
NO	Sjur D. Flam
NO	Alexei Gaivoronski
NO	Stein W. Wallace
NZ	Andrew B. Philpott
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RU	I.V. Evstigneev
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US	Alan J. King
US	Andras Prekopa
US	Stephen M. Robinson
US	R. Tyrrell Rockafellar
US	Andrzej Ruszczynski
US	Suvrajeet Sen
US	Roger J.-B. Wets

TC 8 (INFORMATION SYSTEMS) 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.

SCOPE

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.

URL: http://ifiptc8.dsi.uminho.pt/

Chair
Prof. Barbara PERNICI, IT
Politecnico di Milano
Dipartimento di Elettronica
e Informazione
Piazza Leonardo da Vinci 32
IT-20133 MILANO
Italy
Tel. +39 02 23993526
Fax +39 02 23993411
e-mail: barbara.pernici@polimi.it

Vice-Chairs
Prof. George M. KASPER, US/ACM
Virginia Commonwealth University
School of Business
Dept. of Inf. Systems
1015 Floyd Avenue
RICHMOND, VA 23284-4000
USA
e-mail: kasper@acm.org

Prof. Jan PRIES-HEJE, DK
Roskilde University
Department of Communication,
Business & IT
User Driven IT Innovation Research
Group
Building 42.2
Universitetsvej 1
DK-4000 ROSKILDE
Denmark
Tel. +45 4674 3051
e-mail: janph@ruc.dk

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
e-mail: iramos@dsi.uminho.pt

Publications & Events Officer
Prof. Jan PRIES-HEJE, DK
Roskilde University
Department of Communication,
Business & IT
User Driven IT Innovation Research
Group, Building 42.2
Universitetsvej 1
DK-4000 ROSKILDE, Denmark
Tel. +45 4674 3051
e-mail: janph@ruc.dk

AR	Horacio P. Leone
AT	A Min Tjoa
AU	Steve Elliot
BE	Dirk Deschoolmeester
BG	Krassen Stefanov
CH	Yves Pigneur
CN	Ji Wang
CZ	Josef Basl
DE	Theo Haerder
ES	Maria-Ribera Sancho
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FR	David Avison
GB	T.William Olle
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IL	Michael Z. Hanani
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SG	Juzar Motiwalla
SI	Marjan Krisper
SK	Anton Scheber
US	Erich Neuhold (IEEE)
ZA	Irvin Brown

WG 8.1 - Design and Evaluation of Information Systems est. 1976, revised 1990 and 1992

AIMS

The planning, analysis, design and evaluation of information systems for organisations.

SCOPE

- 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.

URL: http://home.dei.polimi.it/pernici/ifip81/index.html

Chair
Prof. Barbara PERNICI
Politecnico di Milano
Dipartimento di Elettronica
e Informazione
Piazza Leonardo da Vinci 32
IT-20133 MILANO
Italy
Tel. +39 02 23993526
Fax:+39 02 23993411
e-mail: barbara.pernici@polimi.it

Vice-Chair
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

Secretary
Jolita RALYTE
University of Geneva
Centre Universitaire d'Informatique
CU24, Rue du Général Dufour,
CH-1211 GENEVE 4
Switzerland
Tel. +41 22 379 10 89
Fax +41 22 379 12 15
e-mail: Jolita.Ralyte@cui.unige.ch

AT	Johann Eder
AT	A Min Tjoa
AU	Brian Henderson-Sellers
AU	Peter Green
AU	Michael Rosemann
BE	Francois Bodart
BE	Michaël Petit
BE	Frans van Assche
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NL	Jan Gossenaerts
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NL	Erik Proper
NL	Guus J. Ramackers
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NL	Gerard Wijers
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NO	Guttorm Sindre
NO	Arne Sølvberg
NZ	John Grundy
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SE	Kurt Sandkuhl
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SE	Benkt Wangler
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US	Richard Baskerville
US	John Erikson
US	Terry Halpin
US	Fiona Fui-Hoon Nah
US	Sudha Ram
US	Keng Siau
US	Tony Wasserman
ZA	Graham McLeod

WG 8.2 - 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.

SCOPE

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.

URL: http://www.ifipwg82.org

Chair
Dr. Nancy RUSSO
Northern Illinois University
OMIS Dept.
Barsema 328
DEKALB, IL 60115, USA
Tel. +1 815 753 1185
Fax +1 815 753 7460
e-mail: nrusso@niu.edu

Vice-Chair
Prof. Brian FITZGERALD
University of Limerick
Department of Computer Science and Information Systems (CSIS)
IE-LIMERICK
Ireland
Tel. +353 61 202720
Fax +353 61 202734
e-mail: brian.fitzgerald@ul.ie

Secretary
Prof. Kevin CROWSTON
Syracuse University
School of Information Studies
348 Hinds Hall
SYRACUSE, NY 13244, USA
Tel. +1 315 443 1676
Fax +1 866 265 7407
crowston@syr.edu

AU	John Campbell	GB	Tom McMaster	US	Hala Annabi
AU	Dubravka Cecez-Kecmanovic	GB	Joe Nandhakumar	US	Richard Baskerville
AU	Lynda Davies	GB	Michael Newman	US	Pratyush Bharati
AU	Donald Falconer	GB	Faith Noble	US	Richard Boland
AU	Walter D. Fernandez	GB	Briony Oates	US	Bruce E. Breeding
AU	Bernhard C. Glasson	GB	Niki Panteli	US	Michelle Brown
AU	Liisa von Hellens	GB	Natasha Papazafeiropoulou	US	Bongsug Chae
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AU	Heejin Lee	GB	Kostas Samiotis	US	Randy Cooper
AU	Nancy Olson	GB	Chris Sauer	US	Elizabeth J. Davidson
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AU	John R. Venable	GB	Carsten Sorensen	US	Janice I. De Gross
BE	Dirk Deschoolmeester	GB	Bernd Stahl	US	Gurpreet Dhillon
BR	Eduardo Morgado	GB	Will Venters	US	Michael J. Gallivan
CA	Wendy Cukier	GB	Richard Vidgen	US	Susan Gasson
CA	Catherine Middleton	GB	Geoff Walsham	US	Matt Germonprez
CA	Alain Pinsonneault	GB	Edgar Whitley	US	Robert Geter
CH	Tsai-hsin Chu	GB	David Wilson	US	Sean Hansen
DE	Helmut Krcmar	GB	Melanie Wilson	US	Noriko Hara
DK	Ivan Aaen	GB	J.R.G. Wood	US	Amir Hartman
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FI	Helena Karsten	NL	Hans Juergen Oppelland	US	Ramiro Montealegre
FI	Mikko Korpela	NL	Philip S. Seligmann	US	Lisa Murphy
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FR	David Avison	NO	Kristin Braa	US	Wanda Orlikowski
FR	Walter Baets	NO	Ole Hanseth	US	Carsten S. Osterlund
FR	Andrea Carugati	NO	Edoardo Jacucci	US	Ken Peffers
FR	Emmanuel Monod	NO	Jens Kaasboll	US	Brian T. Pentland
FR	Frantz Rowe	NO	Trond Knudsen	US	Daniel J. Power
GB	Alison Adam	NO	Tor Larsen	US	Daniel Radell
GB	Carl Adams	NO	Knut Rolland	US	Neil Ramiller
GB	David K. Allen	NO	Elisabeth Rossen	US	Julie Rennecker
GB	Chris Atkinson	NZ	Bill Doolin	US	Jeanne W. Ross
GB	Laurence Brooks	NZ	Michael Myers	US	Steve Sawyer
GB	Ann P. Brown	NZ	Tuure Tuunanen	US	Roy Schmidt
GB	Mike Chiasson	NZ	Cathy Urquhart	US	Ulrike Schultze
GB	Antonio Cordella	PT	Isabel Ramos	US	Valerie Spitler
GB	Tony Cornford	SE	Magnus Andersson	US	Erik Stolterman
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GB	Guy Fitzgerald	SE	Rikard Lindgren	US	Duane P. Truex
GB	Anita Greenhill	SE	Jan Ljungberg	US	N.S. Umanath
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GB	Ian Hosein	SE	Magnus Mähring	US	Olga Volkoff
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GB	Lucas D. Introna	SE	Hans-Erik Nissen	US	Richard J. Welke
GB	Matthew Jones	SE	Annakarin Nyberg	US	Susan Winter
GB	Ela Klecun	SE	Carl Magnus Olsson	US	Judy Wynekoop
GB	Frank F. Land	SG	Shan Pan	US	Eleanor W. Wynn
GB	Ben Light	SG	Chee Sing Yap	US	Youngjin Yoo
GB	Stephen E. Little	SI	Joze Gricar	US	Robert W. Zmud
GB	Hideyaki Matsumoto	US	Jonathan Allen	ZA	Brian O'Donovan
GB	Kathy McGrath	US	Anthony Ammeter	ZA	Louise Whittaker

WG 8.3 - Decision Support Systems 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.

SCOPE

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 modelling.

URL: www.ifip-dss.org

Chair
Dr. Patrick HUMPHREYS
London School of Econ. &
Political Sciences
Dept. of Social Psychology
Houghton Street
LONDON WC2 2AE, U.K.
e-mail: p.humphreys@lse.ac.uk

Vice-Chairs
Prof. Sven CARLSSON
Jönköping University
Jönköping International Business
School
P.O. Box 1026
SE-551 11 JOENKOEPING
Sweden
Tel. +46 36 157504
Fax +46 36 121832
e-mail: sven.carlsson@jibs.hj.se

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

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

AE	M. Murad Abdulla
AE	Leila Gaaserud
AT	Fatima Dargam
AU	David Arnott
AU	John Bally
AU	Emilia Bellucci
AU	John Betts
AU	Danijela Briggs
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AU	Bernard C. Glasson
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AU	Jie Lu
AU	Lokman Mia
AU	Rob Meredith
AU	Rattanan Nantiyakul
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GB	Graham Winch
GB	Jian-Bo Yang
GR	Kozell Williams
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NO	Bjorn Erik Munkvold
NO	Bjørn Tvedte
NZ	Steven Eades
NZ	Carmel Joe
NZ	Pak Yoong
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PL	Stanislaw Stanek
PT	Pedro Antunes
PT	Carlos Henggeler Antunes
PT	Joao Climaco
PT	Helder Coelho
PT	Luis Dias
PT	Ana Luisa Respicio
PT	Paula Sarabando
PT	Tatiana Tchemisova
RU	Eric Nappelbaum
SA	Amein Al-Suezi
SA	Hussain Al-Zahir
SA	Hassan Asiree
SE	Faramarz Agahi
SE	Jan Aidemark
SE	Bjorn Cronquist
SE	Sven-Olov Larsson
SE	Monica Magnusson
SE	Bjorn Thodenius
SG	Yin Ping Yang
SI	S. Bobek
SI	Marko Bohanec
SI	Andrej Bregar
SI	B. Cestnik
SI	Eli Delidzakova-Drenik
SI	Miroljub Kljajic
SI	Vladislav Rajkovic

CA	Sherrie Yi Komiak
CA	Edmond Miresco
CA	Hanan Yaniv
CH	Giovanni Camponovo
CH	Alexandre Gachet
CH	Pius Haettenschwiler
CH	Clemens Herrman
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CL	Renato Orellana
CL	Jose A. Pino
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DE	Claudia Loebbecke
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ES	Sebastian Ayestaran
ES	Jorge Hernandez
FI	Christer Carlsson
FI	Timo Lainema
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FR	Stefania Castellani
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HU	Csaba Csaki
HU	József Csicsman
HU	Viktor Dörfler
HU	Peter Gelleri
HU	Ferenc Kiss
HU	Zita Paprika
HU	Anna Vari
HU	Janos Vecsenyi
IE	Liam Bannon
IE	Fergal Carton
IE	Peter B. Keenan
IE	Gaye Kiely
IE	Ciaran Murphy
IE	Karen Neville
IE	Philip O'Reilly
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IN	N. Manikanta
IT	Claudio Ferioli
IT	Paul Hasenohr
IT	Gianpaolo Iazzolino
IT	Piero Migliarese
IT	Maria Franca Norese
JP	Yasuaki Kobashi
KR	Namho Chung
KR	Jin Sung Kim
KW	Khalid Al-reshaid
MX	Manuel Mora
NG	Nosa Isere
NL	Mehmet Aydin
NL	Nick Draper
NL	Henk Gazendam
NL	Gerard de Zeeuw
NL	Ronald M. Lee
NL	Henk G. Sol
NL	Roland Wijnen
SI	Martin Znidarzic
US	Deepinder Bajwa
US	Amit Basu
US	Alfs T. Berztiss
US	Tung Bui
US	Peter Duchessi
US	Sean B. Eom
US	Ixchel Faniel
US	Kenneth Griggs
US	Stephen Hayne
US	Rudolf A. Hirschheim
US	George P. Huber
US	Eitel Lauria
US	Kyle Lewis
US	L. Floyd Lewis
US	Denise McManus
US	Uday Murthy
US	Robbie Nakatsu
US	Ryan Nelson
US	Andreas Nicolaou
US	Daniel O'Leary
US	David Paradice
US	Gloria Phillips-Wren
US	Daniel Power
US	Steve Remington
US	William Remus
US	Charles Snyder
US	Ralph Sprague
US	Thornton Staples
US	Andrew B. Whinston
US	George Widmeyer
US	Rosemary Wild
US	Lawrence F. Young
US	Michael Zack
US	Robert W. Zmud
ZA	Neil Duffy
ZA	Marita Turpin

WG 8.4 - 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.

SCOPE

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.

URL: http://ifip84.econ.usyd.edu.au/

Chair
Prof. Gerald QUIRCHMAYR
University of Vienna
Institut für Informatik und Wirtschaftsinformatik
Liebiggasse 4/3-4
AT-1010 VIENNA, Austria
Tel. +43 1 4277 38431
Fax +43 1 4277 38449
e-mail:
gerald.quirchmayr@univie.ac.at

Vice-Chairs
Prof. Douglas VOGEL
City University of Hong Kong
Dep. of Information Systems
Tat Chee Avenu
CN-Kowloon, HONG KONG
China
Tel. +852 27887560
Fax +852 27888694
e-mail: isdoug@cityu.edu.hk

Dr. Robert JOHNSTON
University of Melbourne
Dept. of Information Systems
Parkville, VICTORIA, 3052
AU-Australia
Tel. +61 3 8344 9266
Fax +61 3 9349 4596
e-mail:
r.johnston@dis.unimelb.edu.au

Secretary
Prof. Richard BASKERVILLE
Georgia State University
Dept.of Computer Inf. Systems
PO Box 4015
35 Broad St. NW
ATLANTA, GA 30302-4015
USA
Tel. +1 404 651 0934
Fax +1 404 651 3842
e-mail: baskerville@acm.org

AT	Philip Amann
AT	Franz Bayer
AT	Gerhard Gaube
AT	Georg Guentner
AT	Christian Kittl
AT	Thomas Menzel
AT	Christoph Moser
AT	Otto Petrovic
AT	Siegfried Reich
AT	Roland Traunmüller
AT	Alexandra Wagner
AU	Carole Alcock
AU	Christian Bauer
AU	Lois Burgess
AU	Janice Burn
AU	Tanya Castleman
AU	Narciso Cerpa
AU	Roger Clarke
AU	Joan Cooper
AU	Frank Cross
AU	Steve Elliot
AU	Graham Farrell
AU	Vivienne Farrell
AU	Brian Garner
AU	Bernard C. Glasson
AU	Shirley Gregor
AU	Meliha Handzic
AU	Catherine Hardy
AU	Bruce Hunt
AU	Elaine Lawrence
AU	Peter Marshall
AU	Cynthia Moussi
AU	Stephen Newton
AU	Mary Anne Patton
AU	Paula Swatman
AU	Nilmini Wickramasinghe
AU	Mary-Anne Williams
AU	Heidemarie Winklhofer
BE	Dirk Deschoolmeester
CH	Reinhard Riedl
CN	Yu Chen
CN	W.M. Cheung
CN	Mai Qi Fang
DE	Baerbel Hoerger
DK	Kim V. Andersen
DK	Stefano Perlusz
ES	Jorge Davila Muro
ES	Francisco J. Lopez Munoz
FR	David Avison
GB	Andrew McCosh
GB	Wendy L. Currie
GB	Yamaya Ekanayaka
GB	T. William Olle
GH	Michael Boafo Afari
GH	Kofi Haligah
IT	Benedetto Intrigila
IT	Paola Inverardi
IT	Massimo Mecella
JP	Takashi Kobayashi
JP	Tetsuya Uchiki
NE	Joseph Adebayo Ayoola
NL	Ellen Christiaanse
NL	Pieter H. Hartel
NL	Marvin Hendrikse
NL	Marco H. R. Mossinkoff
NL	D. Arjen Wassenaar
NO	John Krogstie
NZ	Zlatko J. Kovacic
SE	Mathias Klang
SE	Frederik Roos
TN	Safa Kaabi Chihi
TN	Hella Kaffel Ben Ayed
TN	Farouk Kamoun
US	Gordon B. Davis
US	Marius Janson
US	Ephraim McLean
US	Jan Pries-Heje
US	Eileen M. Trauth
US	George R. Widmeyer
ZA	J. Dewald Roode

WG 8.5 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.

SCOPE

- 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.

URL: http://www.uni-koblenz-landau.de/koblenz/fb4/institute/iwvi/agvinf/community/ifip/

Chair
Prof. Dr. Maria WIMMER
University of Koblenz
Faculty of Informatics
Universitaetsstr. 1
DE-56070 KOBLENZ, Germany
Tel. +49 261 287 2646
Fax +49 261 375 24
e-mail: wimmer@uni-koblenz.de

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

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

AT	Robert Krimmer
AT	Christine Leitner
AT	Josef Makolm
AT	Alexander Prosser
AT	Gerald Quirchmayr
AT	Peter Reichstädter
AT	A Min Tjoa
AT	Roland Traunmüller
BA	Meliha Handzic
BR	Luiz Antonio Joia
BR	Nicolau Reinhard
CH	Jean-Loup Chappelet
CH	Reinhard Riedl
DE	Lars Algermissen
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DE	Ralf Klischewski
DE	Herbert Kubicek
DE	Bjoern Niehaves
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DK	Helle Zinner Henriksen
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ES	Pilar Lasala
FI	Ari-Veikko Anttiroiko
FI	Ahti Saarenpää
FR	Michel Klein
GB	Keith Horton
GB	Ann Macintosh
GB	T. William Olle
GB	Charles Raab
GR	Yannis Charalabidis
GR	Sotirios Koussouris
GR	Fenareti Lampathaki
GR	Euripidis Loukis
GR	Gregoris Mentzas
GR	Efthimios Tambouris
HU	Andreas Gabor
IE	Frank Bannister
IT	Francesco Bolici
IT	Fiorella de Cindio
IT	Enrico Ferro
IT	Rony Medaglia
IT	Monica Palmirani
IT	Maddalena Sorrentino
IT	Andrea Resca
IT	Francesco Virili
IN	Rahul De
LT	Egle Malinauskiene
LT	Rimantas Petrauskas
NL	Victor Bekkers
NL	Bas K. Brussaard
NL	Ronald Leenes
NL	Janwei Liu
NL	Boriana Rukanova
NL	Ignace Snellen
NL	Henk G. Sol
NL	Yao-Hua Tan
NL	Tom M. van Engers
NL	Anne Fleur van Veenstra
NO	Lasse Berntzen
NO	Leif Skiftenes Flak
NO	Arild Jansen
NO	Trond Knudsen
NO	Carl Erik Moe
NO	Hallgeir. Nilsen
NO	Øystein Sæbø
NO	Maung K. Sein
NZ	Miriam Lips
PL	Mariusz Luterek
PL	Witold Staniszkis
RO	Nicolae Costake
SE	Sara Eriksen
SE	Ake Groenlund
SE	Lars Ilshamar
SE	Agneta Ranerup
SI	Mirko Vintar
TH	Wichian Chutimaskul
US	Kenneth L. Kraemer
US	Michael E. Milakovich
ZA	Laurens Cloete

WG 8.6 - 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.

SCOPE

- 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.

URL: http://www.ifip8-6.cbs.dk/

Chair
Dr. Linda LEVINE
Carnegie Mellon University
Software Engineering Institute
5000 Forbes Avenue
PITTSBURGH PA15213-3890
USA
Tel. +1 412 268 3893
Fax +1 412 268 5758
e-mail: ll@sei.cmu.edu

Vice-Chairs
Dr. Deborah BUNKER
University of
New South Wales
Inf. Syst., Technology & Management School
Faculty of Commerce and Economics
Quadrangle Building
AU-SYDNEY 2052, Australia
Tel. +61 2 9385 4255
Fax +61 2 9662 4061
e-mail: d.bunker@unsw.edu.au

Prof. Tor LARSEN
Norwegian School of Management
P.O. Box 580
Elias Smiths Vei 15
NO-1302 SANDVIKA, Norway
Tel. +47 6755 7178
Fax +47 6755 7678
e-mail: tor.j.larsen@bi.no

Secretary
Prof. David WASTELL
Nottingham University Business School
Information Systems
Wollaton Road
NOTTINGHAM NG8 1BB, U.K.
Tel: +44 115 8467783
e-mail:
David.Wastell@nottingham.ac.uk

AU	L. Dawson
AU	Bernard C. Glasson
AU	Steve Elliot
CA	Gitte Lindgaard
DE	A. Gadatsch
DK	Jan Damsgaard
DK	Peter Axel Nielsen
DK	Jan Pries-Heje
DK	Carsten Sorensen
DK	Helle Zinner Henriksen
DK	Karlheinz Kautz
ES	Ana Bernardos
ES	J.R. Casar
ES	Gonzalo Serrano Leon
FI	Pasi Kuvaja
FI	Kari Leppala
GB	Carole Brooke
GB	Y. Dwivedi
GB	E. Ferneley
GB	A. Higgens
GB	Su-yi Lin
GB	Stephen E. Little
GB	Tom McMaster
GB	Chris Sauer
GB	Richard Veryard
GB	Richard Vidgen
NO	Kristin Braa
SE	Bjorn Johansson
SE	H. Linderoth
US	Ritu Agarwal
US	Mario R. Barbacci
US	Richard Baskerville
US	Barbara Bowers
US	Susan A. Brown
US	Lisa Brownsword
US	Priscilla Fowler
US	Lawrence Lien
US	V. Sambamurthy
US	Robert W. Zmud

WG 8.8 - 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 inferfaces 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.

SCOPE
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, prototols 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 organisations.

URL: http://cedric.cnam.fr/ifiptc8.8/

Chair
Prof. Jean-Jacques QUISQUATER
UCL Crypto group
DICE
3, Place du Levant
BE-1348 LOUVAIN-LA-NEUVE
Belgium
Tel. +32 10 472541
Fax +32 10 472598
e-mail: quisquater@dice.ucl.be

Vice-Chair
Prof. Pierre PARADINAS
CNAM
Systèmes Enfouis et
Embarqués Bureau 12.2.40
292 Rue Saint-Martin
FR-75141 PARIS Cedex 03
France
Tel. +33 1 58 80 87 64
Fax +33 1 40 27 27 09
e-mail: pierre.paradinas@cnam.fr

Secretary
Prof. Josep DOMINGO-FERRER
Rovira i Virgili University
Dept. of Computer Engineering and Maths
UNESCO Chair in Data Privacy
Av. Paisos Catalans 26
ES-43007 Tarragona CATALONIA, Spain
Tel. +34 977 558270
Fax. +34 977 559710
e-mail: josep.domingo@urv.cat

AU	Robyn Lindley	ES	Josep Rifa Coma	GB	Braden Phillips
AU	Mark Looi	FR	Yves Deswarte	HU	Zoli Kincses
AU	Tony Watson	FR	Didier Donsez	JP	Tatsuaki Okamoto
CH	Michael Waidner	FR	Gilles Grimaud	NL	Pieter H. Hartel
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DE	Bernd Meyer	FR	Sylvain Lecomte	US	Peter Honeyman
DE	Joachim Posegga	GB	Konstantinos Markantonakis	US	Eduard de Jong

WG 8.9 – Enterprise Information Systems est. 2006

AIMS

- Provide a forum for international collaboration and dissemination of research and best practices in the enterprise information systems area
- Establish close cooperation between academics and practitioners in the area of enterprise information systems
- Increase the impact of research, and use development in the area of Enterprise Resource Planning Systems
- To study the design, implementation and use of Enterprise Resource Planning Systems

SCOPE

- Concepts, theories, techniques, and implementation relevant to enterprise information systems
- Identification of best practices encountered in the use of present day Enterprise Resource Planning Systems
- Management of Enterprise Information Systems
- Utilization of Enterprise Resource Planning in small and Medium enterprises
- Enterprise Resource Planning Systems in the public sector
- Applications of enterprise information systems in a supply chain environment
- Enterprise-control system integration

URL: http://www.keylab-imie.org/confenis2007/eisweb/index.html

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

Vice-Chairs
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: tjoa@ifs.tuwien.ac.at

Prof. Vladimir MARIK
Czech Technical University
Faculty of Electrical Engineering
Technická 2
CZ-16627 PRAGUE
Czech Republic
Tel. +420 224 357 421
Fax +420 224 357 224
e-mail: marik@lab.felk.cvut.cz

Dr. John N. WARFIELD
100 Willow Bend Court
SHEFFIELD, AL 35660-7252
USA
Tel. +1 256 314 0904
e-mail: jnwarfield@aol.com

Secretary
Prof. Maria RAFFAI
Széchenyi István University
Inf. Technology & Business Inf. Science
Egyetem tér 1
HU-9026 GYÖR
Hungary
Tel. +36-96-613-581
Fax +36-96-613-543
e-mail: raffai@rs1.szif.hu

Dr. 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

BR Rogerio Atem de Carvalho
CA Huaizu Li
CA Chris Zhang
CN Yushun Fan
CN Hongxun Jiang
CN Lu Liu
CN Yanping Liu
CN Jiayin Qi
CN Huaying Shu
CN Bin Song
CN Wenan Tan
CN Chengen Wang
CN Li Wang
CN Feng Wu
CN Guoping Xia
CN Shoubo Xu
CN Hong Zhang
CN Li Zhang
CZ Josef Basl
DK Charles Möller
GB William Olle
GB Shang-Ming Zhou
IR Seyyed Mohsen Hashemi
SG Bee Hua Goh
US Anurag Agarwal
US Elias Awad
US Sohail Chaudhry
US James Jones
US Hong Wang
US Meng Chu Zhou

TC 9 (RELATIONSHIP BETWEEN COMPUTERS AND SOCIETY) est. 1976, revised 2008

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.

SCOPE

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.

URL: http://is2.lse.ac.uk/tc9/

Chair
Dr. Chrisanthi AVGEROU, GB
Information Systems Dept
London School of Economics
Houghton Str.
LONDON WC2A 2AE,
United Kingdom
Tel. +44 207 955 7634
Fax +44 207 955 7385
e-mail: c.avgerou@lse.ac.uk

Vice-Chair
Prof. Dr. Lorenz M. HILTY, CH
EMPA
Federal Laboratories for Materials Testing
and Research
Lerchenfeldstr. 5
CH-9014 ST. GALLEN
Switzerland
Tel. +41 71 2747 345
Fax +41 71 2747 862
e-mail: lorenz.hilty@empa.ch

Secretary
Mr. Oliver BURMEISTER, AU
Charles Sturt University
Course Coordinator BIT & BBus/BIT,
Bldg.01
AU-WAGGA WAGGA, NSW 2678
Australia
Tel. +61 2 6933 2591
Fax +61 2 6933 2080
e-mail: oburmeister@csu.edu.au

AR	Frederico Heinz	FR	Gerard Verroust	PL	Andrzej Straszak
AT	Gerald Steinhardt	GB	Richard Sizer	PT	António Brandão Moniz
BE	Jacques Berleur	GR	Vassilios Laopodis	RS	Šuljagić Čedomir
BG	Nelly Ognyanova	HU	Robert Pinter	SE	Ingela Larsson
CA	William McIver	IE	John Drumm	SI	Franci Pivec
CZ	Jan Honzik	IL	Daniel Millin	SK	Ladislav Uncovsky
DE	Klaus Brunnstein	IN	Mini Ulanat	US	Gerald L. Engel (IEEE)
DE	Wolfgang Coy	IT	Gianni Dominici	US	Donald Gotterbarn (ACM)
DK	Leif Bloch Rasmussen	JP	Jun-ichi Kishigami	US	John Impagliazzo
ES	Ignacio Gil-Perchuán	NL	Peter van den Besselaar	ZA	Letlibe Jacob Phahlamohlaka
FI	Markku Nurminen	NO	Bernt Nilsen		

ex-officio members: WG Chairs

WG 9.1 - 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.

SCOPE

The effects of computerization on the lives of three distinct groups of person:

- computer professionals,
- users of computers,
- non-users affected by computers.

URL: http://jpedia.org/ifipwg91/

Chair
Prof. Steven B. SAWYER
Pennsylvania State University
College of Information Sciences and Technology
301F IST Building
UNIVERSITY PARK
PA 16802 – 6823, USA
Tel. +1 814 865 4450
Fax +1 814 865 5604
e-mail: sawyer@ist.psu.edu

Vice-Chair
Prof. Rudi SCHMIEDE
Technical University Darmstadt
Fachbereich 2
Graduiertenkolleg "Technisierung u.Gesellschaft"
Karolinenplatz 5
DE-64289 DARMSTADT
Germany
Tel. +49 6151 16 4933
e-mail: schmiede@ifs.tu-darmstadt.de

Secretary
Prof. Jonathan P. ALLEN
University of San Francisco
Information Systems
2130 Fulton Street, Malloy Hall
SAN FRANCISCO
CA 94117-1045, USA
Tel. +1 415 422 6570
Fax +1 415 422 2502
e-mail: jpallen@usfca.edu

AT	Paul Kolm
AT	Ina Wagner
AU	Julie Cameron
BE	Dirk Deschoolmeester
CA	Ellen Balka
CA	Andrew Clement
CA	Duncan Sanderson
DE	U. Briefs
DE	Klaus Fuchs-Kittowski
DE	Th. Herrmann
DE	Brita Hohlmann
DE	Rinehart Keil-Slawik
DE	Jessica Longen
DE	B. Lutterbeck
DE	Peter Mambrey
DE	Sebastian Remer
DE	Mascha Will-Zocholl
DK	J.P. Bansler
DK	Lars Christensen
DK	Finn Kensing
DK	J. Kjaer
DK	Hrønn Sigurdardottir
DK	Jesper Simonsen
FI	Pertti Järvinen
FI	Markku Nurminen
IE	Liam J. Bannon
NL	Peter van den Besselaar
NL	F. Hertog
NL	K. Tijdens
NO	Tone Bratteteig
NO	Torsten Hjelle
NO	Gasparus Jarulaitis
PT	Antonio Moniz
PT	Jose Sampaio
SE	Gunilla Bradley
SE	Boel Carlsson
SE	S. Friis
SE	Agneta Olerup
SE	Ingela Larsson
US	Steve Barley
US	Michael J. Muller
US	Carsten Osterlund
US	Julie Rennecker
US	Lucy Suchman
US	Randy Trigg

WG 9.2 - Social Accountability est. 1977

AIMS

- helping make computer professionals and system designers and others aware of the social consequences of their work;
- developing criteria to determine how well the public is served when it comes into contact with computerized systems;
- enabling and encouraging designers and users of computer systems to make a human choice, i.e. a choice which takes into account human needs and wishes.

SCOPE

Those aspects of computers which affect the public interest. Among these are:

- ethical issues arising out of the use of computers,
- the freedom of access to information, as well as the right to privacy and to the protection of sensitive data,
- shifts in the balance of power arising out of the use of computers,
- the effects of computers in public and private organisations,
- education of the public about computers, and of computer professionals about the effects of their work.

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, Hendon
LONDON NW4 4BT, UK
Tel.: +44 208 411 4333
Fax: +44 208 411 6943
e-mail: p.duquenoy@mdx.ac.uk

Vice-Chair
Mr. Christopher ZIELINSKI
Technical Coordinator IER
World Health Organization
Parirenyatwa Hospital
Mazowe Street
ZW-HARARE, Zimbabwe
Tel: +47 241 38133
e-mail: zielinskic@zw.afro.who.int

Secretary
Dr. Kai K. KIMPPA
University of Turku
Dept. of Information Techn.
ICT Building, 4th floor
Joukahaisenkatu 3-5 C
FI-20520 TURKU, Finland
Tel. +358 2 333 8665
Fax +358 2 333 8600
e-mail: kai.kimppa@utu.fi

AU	Julie Cameron	DK	Leif Bloch Rasmussen	IE	John Drumm
AU	David Cassam	ES	Porfirio Barroso Asenjo	IT	Norberto Patrignani
AU	Roger Clarke	ES	Juana Maria Sancho Gil	NL	Paula M.M. Goossens
AU	John Weckert	FI	Martin Stenberg	NL	Heinz A. Klamet
BE	Jacques Berleur	FR	Romain Laufer	NL	Marc van Lieshout
BE	Marie d'Udekem-Gevers	GB	Geoff Busby	NL	Felix van Rijn
BE	Philippe Goujon	GB	Carlisle George	NL	Ton K. Westerduin
BE	Veronique Laurent	GB	Karamjit S. Gill	SE	Fabian von Scheele
BE	Bern Martens	GB	Matt Jones	SE	Gunnar Wenngren
BE	Benjamin Six	GB	Harold Thimbleby	SE	Louise Yngstrom
CA	Richard Rosenberg	GB	Diane Whitehouse	SI	Franci Pivec
DE	Herbert Burkert	GR	Vassilios Laopodis	TH	Pateep Methakunavudhi

SIG 9.2.2 - Framework on Ethics of Computing

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

Chair
Prof. Jacques BERLEUR
Institut d'Informatique
Facultes Universitaires
Notre-Dame de la Paix (CITA)
21, Rue Grandgagnage
BE-5000 NAMUR, Belgium
Tel.: +32 81 72 4976
Fax: +32 81 72 4967
e-mail: jberleur@info.fundp.ac.be

Secretary
Dr. Kai K. KIMPPA
University of Turku
Dept. of Information Techn.
ICT Building, 4th floor
Joukahaisenkatu 3-5 C
FI-20520 TURKU, Finland
Tel. +358 2 333 8665
Fax +358 2 333 8600
e-mail: kai.kimppa@utu.fi

AU	Mike Bowern	DE	Debora Weber-Wulff	GR	Vassilios Laopodis
AU	Oliver Burmeister	ES	Porfirio Barroso Asenjo	SE	Gunnar Wenngren
AU	Julie Cameron	ES	Juana M. Sancho Gil	SI	Franci Pivec
AU	John Weckert	GB	Penny Duquenoy	US	Karen Duncan *
BE	Marie d'Udekem-Gevers**	GB	Carlisle E. George	US	Don W. Gotterbarn*
BE	Philippe Goujon	GB	Matt Jones	US	Deborah G. Johnson *
BE	Veronique Laurent	GB	T.Richard Sizer	US	Joseph M. Kizza
DE	Klaus Brunnstein*	GB	Harold Thimbleby	US	Dianne Martin *
DE	Christina Class	GB	Diane Whitehouse	ZA	Andrew Morris
DE	Wolfgang Coy	GB	Christopher Zielinski		

*) Guests
**) corresponding member

WG 9.3 - 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.

SCOPE
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.

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, Scotland
United Kingdom
Tel. +44 131 455 2775
e-mail: k.buckner@napier.ac.uk

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

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

WG 9.4 - 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.

SCOPE
- 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.

URL: http://is.lse.ac.uk/ifipwg94

Chair
Dr. Abiodun BADA
The George Washington University
Dept. of Engineering and Systems Engineering
1776 G Street, NW,
Suite 130
WASHINGTON, DC 20052
USA
Tel: +1 202 994 1240
Fax +1 202 994 4606
E-mail: aobada@gwu.edu

Vice-Chairs
for African Region:
Dr. Jonathan MILLER
Miller Esselaar & Associates
P O Box 26138
ZA-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
CN-HONG KONG, China
e-mail: harris38@netvigator.com

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

Secretary
Ms. Savita BAILUR
London School of Economics
Department of Information Systems
Houghton Street
LONDON WC2A 2AE
United Kingdom
Tel: +44 20 7955 7655
e-mail: S.Bailur@lse.ac.uk

BB Stewart Bishop
BE Jacques Berleur
CA Sundeep Sahay
CL Ricardo Baeza-Yates
CN Robert Davison
DE Jorg Meyer-Stamer
FI Mikko Korpela
GB Chrisanthi Avgerou
GB Patrick Hall
GB G. Harindranath
GB Richard Heeks
GB Frank F. Land
GB Shirin Madon
GB Geoff Walsham
IN Subhash C. Bhatnagar
IN V.P. Gulati
IN Rekha Jain
MX N. Volkow
NG Hettie Abimbola Soriyan
NO Jorn Braa
SE Per Lind
TG Mohammed L. Mansaray
UG Nora Mulira
US Edgard M. Roche
VE G. Rodriguez
ZA J. Dewald Roode

WG 9.5 – 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.

SCOPE
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

URL: http://www.ifip95wg.org

Chair
Dr. Niki PANTELI
University of Bath
School of Management
BATH, BA2 7AY
United Kingdom
Tel. +44 0 1225 383319
Fax +44 0 1225 386473
e-mail: N.Panteli@bath.ac.uk

Vice-Chair
Dr. Martin WARNKE
Universität Lüneburg
Rechen-und Medienzentrum
DE-21332 LÜNEBURG
Germany
Tel. +49 4131 677 1202
e-mail: warnke@uni-lueneburg.de

Secretary
Dr. David KREPS
University of Salford
Salford Business School
Maxwell 511f
SALFORD, Lancashire M5 4WT
United Kingdom
Tel. +44 0 1612 955884
e-mail: d.g.kreps@salford.ac.uk

AT	Claus Pias	GB	Simran Grewal	IN	Rajeev Sharma
AU	Oliver Burmeister	GB	Maria Hayes	US	Esther Baldwin
DE	Wolfgang Coy	GB	Joyce Lee	US	Richard Beckwith
DE	Martin Warnke	GB	Steve Little	US	Kevin Crowston
DE	Christian Wittenburg	GB	Christina Papapetrou	US	Liz Davidson
DE	Maria Woerndl	GB	Pathareeporn Pluempavarn	US	Kim De Vries
DE	Christin Schmidt	GB	Maha I. Shaikh	US	Ingrid Erickson
DK	Pernille Kraemmegaard	GB	Nicola Strong	US	Aaron Molenaur
FI	Helena Karsten	GB	Pavlo Tanasyuk	US	Mark Mortensen
GB	Chrisanthi Avgerou	GB	Brian K. Temple	US	Michael O'Leary
GB	Petros Chamakiotis	GB	Will Venters	US	Wanda Orlikowski
GB	Mike Chiasson	GB	Leslie Willcocks	US	Cindy Pickering
GB	Tony Cornford	GB	Lin Yan	US	Mary Beth Watson-Manheim
GB	Roger V. Daalen Fuent	GR	Petros Chamakiotis	US	Velvet Weems-Landingham
GB	Keith Dixon	GR	Anthony Papargyris	US	Kangning Wei
GB	Elizabeth Duncan	GR	Angeliki Poulymenakou	US	Eleanor Wynn

WG 9.6/11.7 - 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.

SCOPE

- 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.

URL: http://www.cs.kau.se/~simone/ifip-wg-9.6/wg96.htm

Chair
to be determined

Secretary
Mr. Gunnar WENNGREN
SENIOR Consult
AB Wenngrens i Linköping
SE-Söreboda, 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
CZ	Dagmar Brechlerova
CZ	Cestmir Halbich
DE	Arslan Broemme
DE	Kai Rannenberg
DE	Kathrin Schier
ES	Jorge Davila
ES	Francisco Javier Lopez-Munoz
ES	Judit Valdivia
FI	Juhani Paavilainen
FR	Philippe Le Clech
FR	Hubert Marty-Vrayance
GB	Rachel Burnett
GB	Riad M. Fawzi
GB	Ken Lindup
GB	Charles Raab
GB	Peter Randle
GB	Richard Sizer
GB	Anita Smith
GB	Frederick Wamala
GB	Robert Willison
HR	Suzana Stojakovic-Celustka
IT	Giovanni Iachello
NL	Jan Holvast
NL	Henrik Kaspersen
NZ	Pradeep Navalkar (SEARCC)
PL	Michal Golinski
RU	Victor Naumov
RU	Yuri Andreevich Timofeev
SE	Helena Andersson
SE	Frederik Bjoerck
SE	Simone Fischer-Hübner
SE	Kjell Naeckros
SE	Louise Ángstrom
SE	Albin Zuccato
SK	Daniel Olejar
SK	Jozef Vyskoc
US	Vijay Masurkar

WG 9.7 - 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.

SCOPE

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.

URL: http://www.comphist.org

Chair
Dr. Arthur TATNALL
Victoria University
Graduate School of Business
P.O. Box 14428
AU-MELBOURNE 8001
Australia
Tel. +61 3 9919 1034
Fax +61 3 9919 1064
e-mail: arthur.tatnall@vu.edu.au

Vice-Chair
Dr. David ANDERSON
University of Portsmouth
School of Creative Technologies
Room 1003
36-40 Middle Street
Portsmouth, HANTS PO5 4BT
U.K.
Tel. +44 (0)23 9284 5525
e-mail:
david.anderson@port.ac.uk

Secretary
Mrs. Barbara TATNALL
58 Meyrick Crescent
Viewbank
AU-VICTORIA 3084
Australia
Tel. +61 3 9459 2562
Fax +61 3 9459 8827
e-mail:
Barbara@HeidelbergPress.com.au

AT	René Riedl
AT	Heinz Zemanek
AU	John M. Bennett
AU	Maxwell Burnet
AU	William Caelli
AU	Bill Davey
AU	Keith Smillie
CA	M. Williams
CU	Tomás López Jiménez
DE	Friedrich L. Bauer
DE	Wilfried Brauer
DE	Klaus Brunnstein
DE	Wolfgang Coy
DE	Ulf Hashagen
DE	Reiner W. Hartenstein
DE	Raul Rojas
DE	Horst Zuse
DK	Erik Bruhn
DK	Lars Heide
ES	Ramon Puigjaner
FI	Hans Andersin
FI	Reino Kurki-Suonio
FI	Petri Paju
FI	Martti Tienari
FR	Jean-Claude Laprie
FR	Hans Pufal
FR	Gerard Verroust
GB	Christopher P. Burton
GB	Martin Campbell-Kelly
GB	Gordon Davies
GB	Sandy Douglas
GB	Roger G. Johnson
GB	Frank F. Land
GB	Simon H. Lavington
GB	William Olle
GB	Brian Randell
GB	Tony Sale
GB	Doron Swade
GB	Maurice V. Wilkes
HU	Balint Domolki
HU	Gyozo Kovacs
IL	Meir Komar
IN	Rakesh Mohan Bhatt
IS	Oddur Benediktsson
IS	Magnus Magnússon
IT	Corrado Bonfanti
IT	Giorgio Casadei
IT	Parolini Giuditta
JP	Masami Hagiya
JP	Eiiti Wada
NL	Gerard Alberts
NL	Herman Spanjersberg
NL	Ruud van Dael
NO	Drude Berntsen
NO	Norman Sanders
PT	Joao M. Fernandes
SE	Janis Bubenko
SE	Boerje Langefors
SE	Harold Lawson
SE	Tomas Ohlin
SR	S. Turrance Nandasara
US	David K. Allison
US	William Aspray
US	Paul Ceruzzi
US	Martha Crosby
US	Michael N. Geselowitz
US	Mary Hopper
US	John Impagliazzo
US	John A. N. Lee
US	Robert M. Price
US	Julian Reitman
US	Jeffrey Yost

WG 9.8 Women and Information Technology est. 2001

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.

SCOPE

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.

URL: http://www.informatik.uni-bremen.de/~oechteri/IFIP

Chair
to be determined

AT	Margit Pohl	DE	Veronika Oechtering	NL	C. Crutzen
AU	Annemieke Craig *	DE	Heidi Schelhowe	NL	S. Janssen
AU	Liisa A. von Hellens	GB	Alison Adam	NL	E. C.J. van Oost
AU	Susan Myburgh	GB	Eileen Green	NP	S.S. Khati *
AU	Paula Roberts	GB	Frances Grundy *	NO	T. Hapnes
AU	Toni Robertson	GB	Gregory John Michaelson	SE	Marja Vehvilainen
AU	Angela Scollarly	GB	Eva Turner	US	S. Smith *
DE	Britta Schinzel	NG	Hettie Abimbola Soriyan *		

*) regional coordinators

WG 9.9 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.

SCOPE

- 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
    - of ICT hardware life cycles; production, use, recycling and final disposal
    - of ICT applications with respect to the resource efficiency of processes they influence
    - 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.

Chair
Prof. Dr. Lorenz M. HILTY
EMPA
Federal Laboratories for Materials Testing and Research
Sustainable Information Techn.Unit
Lerchenfeldstr. 5
CH-9014 ST. GALLEN, Switzerland
Tel. +41 71 2747345
Fax +41 71 2747862
e-mail: lorenz.hilty@empa.ch

Vice Chair
Dr. Magda HERCHEUI
University of Westminster
Marylebone Building
Room M201
35 Marylebone Road
LONDON, NW1 5LS
U.K.
Tel. +44 20 7911 5000 x 3033
Fax +44 79 0665 3238
e-mail:
m.hercheui@westminster.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 187 35
Fax +43 1 58801 187 93
e-mail:
peter.fleissner@igw.tuwien.ac.at

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

TC 10 (COMPUTER SYSTEMS TECHNOLOGY) 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.

SCOPE

- 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.

URL: http://www.upb.de/cs/ag-rammig/TC10-Webpages/membertc10.htm

Chair
Dr. Bernhard ESCHERMANN, CH
ABB Schweiz AG
Semiconductors
Fabrikstrasse 3
CH-5600 LENZBURG
Switzerland
Tel. +41 58 586 1365
Fax +41 58 586 1301
e-mail:
bernhard.eschermann@ch.abb.com

V/Chair
Prof. Ricardo REIS
Universidade Federal do Rio Grande do Sul
Av. Bento Goncalves, 9500
BR-91501-970 PORTO ALEGRE, Brasil
Tel. +55 51 3316 9500
Fax +55 51 3316 7308
e-mail: reis@inf.ufrgs.br

Secretary
Prof. Paolo PRINETTO
Politecnico di Torino
Dipart. di Automatica e Inf.
Corso Duca degli Abruzzi 24
IT-10129 TORINO
Italy
Tel. +39 11 5647007
Fax +39 11 5647099
e-mail: paolo.prinetto@polito.it

AR	Patricia Borensztejn	DK	Jan Madsen	NO	Olav Landsverk
AT	Alois Ferscha	ES	Juan-Carlos López	PT	Ricardo J. Machado
BG	Plamenka Borovska	FR	Jean-Claude Laprie	RS	Miroljub Dugić
CL	Mauricio Solar	GR	V. Goudela	RU	Alexander L. Stempkovsky
CLEI	Ricardo Cayssials	HU	Andras Pataricza	SE	Jan Torin
CN	Guojie Li	JP	Takashi Nanya	SI	Dusan M. Kodek
CZ	Milan Ceska	KR	Sang Y. Min	US	John R. Gurd (ACM)
DE	Franz J. Rammig	NL	Henk J. Sips	FR	Daniel Etiemble (IEEE)

ex-officio members: WG Chairs

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.

SCOPE
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.

URL: http://jerry.c-lab.de/ifip-wg-102/index.html

Chair
Prof. Wayne WOLF
Princeton University
Dept. of Electrical Engineering
PRINCETON, NJ 08544-5263
USA
Tel. +1 609 2581424
Fax +1 609 2583745
e-mail**:** wolf@ee.princeton.edu

Vice-Chair
Dr. Bernd KLEINJOHANN
C-LAB
University of Paderborn
Fuerstenallee 11
DE-33102 PADERBORN
Germany
Tel. +49 52 51/60 6101
Fax +49 52 51/60 6066
e-mail: bernd@c-lab.de

AT	Raimund Kirner
AT	Hermann Kopetz
AT	Peter Puschner
AT	Bernhard Rinner
BE	Pierre Wolper
BR	Luigi Carro
BR	Flavio R. Wagner
BR	Carlos E. Pereira
CA	Uwe Glässer
CA	Laurence T. Yang
CH	Bernhard Eschermann
CH	Lothar Thiele
DE	Christophe Bodba
DE	Rolf Ernst
DE	Gerhard Fohler
DE	Wolfgang Halang
DE	Lisa Kleinjohann
DE	Franz Rammig
DE	Achim Rettberg
DE	Klaus Schneider
DE	Bernhard Steffen
DE	Klaus Waldschmidt
DK	Jan Madsen
ES	Alfons Crespo Lorente
FR	Jean Arlat
FR	Paul Caspi
FR	Ahmed Jerraya
FR	Thierry Jeron
FR	Jean-Marc Jezequel
FR	Luis-Miguel Santana Ormeno
FR	Francois Terrier
GB	Guillem Bernat
NL	Ed Brinksma
SE	Petru Eles
SE	Björn Lisper
SG	P.S.Thiagarajan
PT	Luis Almeida
PT	Joao Miguel Fernandez
PT	Ricardo Machado
PT	Luis Pinho
PT	Henriquè Santos
SI	Matjac Colnaric
US	Dimiter R. Avresky
US	Thomas Conte
US	Nikil Dutt
US	Guang Gao
US	Rajesh Gupta
US	Graham Hellestrand
US	Mary Jane Irwin
US	Kane H. Kim
US	Edward Lee
US	Vincent J. Mooney III
US	Frank Mueller
US	Janos Sztipanovits
US	Ying C. Yeh

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.

SCOPE

- 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.

URL: http://www.ifipwg103.org

Chair
Prof. Chris JESSHOPE
University of Amsterdam
Informatics Institute
Kruislaan 403
NL-1098 SJ AMSTERDAM
The Netherlands
Tel. +31 20 525 7570
Fax +31 20 525 7419
e-mail: jesshope@science.uva.nl

Vice-Chair
Prof. Erik MAEHLE
University of Luebeck
Institute of Computer Engineering
Ratzeburger Allee 160, House 33, Room 104
DE-23538 LUEBECK
Tel. +49 451 500-3690
Fax +49 451 500-3687
e-mail: maehle@iti.uni-luebeck.de

Secretary
Prof. Makoto AMAMIYA
Kyushu University
Faculty of Information Science and Electrical Engineering
6-1 Ksuga-koen Ksuga
JP-FUKUOKA 816-8580
Japan
Tel. +81 92 583 7613
Fax +81 92 583 7613
e-mail: amamiya@is.kyushu-u.ac.jp

Vice-Chair
Prof. Guang GAO
University of Delaware
Department of Electrical and Computer Engineering
140 Evans Hall
NEWARK, DE 19716, USA
Tel. +1 302 831 8218
Fax +1 302 831 4316
e-mail: ggao@ee.udel.edu

AU	Gregory Kenn Egan	FR	Michel Raynal	US	Roy H. Campbell
AU	Andrew L. Wendelborn	GB	Roland Ibbett	US	Jack Dongarra
BG	Vladimir Lazarov	GB	Michael O'Boyle	US	Kemal Ebcioglu
BR	Siang Wun Song	GB	Ron Perrott	US	Tarek El-Ghazawi
CA	Morven W. Gentleman	GB	Alex Shafarenko	US	Edward Alvin Feustel
CH	Helmar Burkhart	GB	Nigel Topham	US	Jean-Luc Gaudiot
CN	Zhiwei Xu	IN	Vijay P. Bhatkar	US	Tony Hey
CY	Paraskevas Evripidou	IT	Fabrizio Baiardi	US	Mary Jane Irwin
DE	Thomas Bemmerl	IT	Marco Danelutto	US	Lawrence Rauchwerger
DE	Arndt Bode	IT	Marco Vanneschi	US	Dan Reed
ES	Ramon Puigjaner	JP	Nikolay Mirenkov	US	Behrokh Samadi
FR	Michel Cosnard	JP	Yoichi Muraoka	US	Beverly A. Sanders
FR	Christine Eisenbeis	JP	Toshio Nakatani	US	Thomas Sterling
FR	Ulrich Finger	SE	Gunnar Carlstedt	US	Gabriel M. Silberman
FR	Bertil Folliot	TR	Cevdet Aykanat	US	Hans Zima
FR	Claude Girault	US	Nader Bagherzadeh		

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.

SCOPE
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.

URL: http://www.dependability.org/wg10.4/

Chair
Dr. Richard D. SCHLICHTING
AT&T Labs Research
Shannon Laboratory, E221
180 Park Avenue
FLORHAM PARK, NJ 07932
USA
Tel. +1 973 360 8234
Fax +1 973 360 8077
e-mail: rick@research.att.com

Vice-Chair
Dr. Karama KANOUN
LAAS – CNRS
7, avenue du Colonel Roche
FR-31077 TOULOUSE Cedex 4
France
Tel. +33 5 61 33 62 35
Fax +33 5 61 33 64 11
e-mail: karama.kanoun@laas.fr

AT	Hermann Kopetz	JP	Xavier Defago	US	William C. Jones*
AT	Stefan Poledna	JP	Hirokazu Ihara*	US	Zbigniew Kalbarczyk
BR	Elaine Martins	JP	Nobyyasu Kanekawa	US	Kane H. Kim
DE	Mario Dal Cin*	JP	Yoshiaki Koga*	US	Philip Koopman
DE	Christof Fetzer	JP	Takashi Nanya	US	Jaynarayan H. Lala
DE	Günter Heiner*	JP	Yoshihiro Tohma*	US	Carl E. Landwehr
DE	Neeraj Suri	LT	Algirdas Avizienis*	US	Roy A. Maxion
FR	Jean Arlat	PT	Henrique Madeira	US	Edward J. McCluskey
FR	Stanislaw Budkowski	PT	Paulo Verissimo	US	John F. Meyer*
FR	Alain Costes	SE	Johan Karlsson	US	Priya Narasimhan
FR	Jean-Claude Laprie	SE	Jan Torin*	US	David A. Rennels*
FR	David Powell	US	Jacob A. Abraham	US	Arthur S. Robinson
GB	Tom Anderson	US	Nicholas S. Bowen	US	John Rushby
GB	Bev Littlewood	US	Ram Chillarege	US	William H. Sanders
GB	Aad van Moorsel	US	Kevin R. Driscoll	US	O. Sami Saydjari
GB	Brian Randell*	US	W. Kent Fuchs	US	Daniel P. Siewiorek
GB	Lorenzo Strigini	US	George C. Gilley*	US	T. Basil Smith
IE	Robert J. Stroud	US	Jack Goldberg*	US	Lisa Spainhower
IN	Chandra M. R. Kintala	US	Walter Heimerdinger	US	Kishor S. Trivedi
IT	Andrea Bondavalli	US	Matti A. Hiltunen	US	Chris J. Walter
IT	Michele Morganti	US	Ravishankar K. Iyer	US	Charles B. Weinstock
IT	Luca Simoncini	US	Farnam Jahanian	US	Ying C. Yeh
IT	Roberto Baldoni				

*) member emeritus

SIGDeB - IFIP WG 10.4 (Special Interest Group on Dependability Benchmarking) est. 1999

URL: http://www.ece.cmu.edu/~koopman/ifip_wg_10_4_sigdeb/

Chair
Dr. Karama KANOUN
LAAS-CNRS
7, Av. du Colonel Roche
FR-31077 TOULOUSE Cedex
France
Tel. +33 561 33 64 05
Fax +33 561 33 64 11
e-mail: karama.kanoun@laas.fr

Vice-Chair
Dr. Lisa SPAINHOWER
IBM Inc.
POUGHKEEPSIE, NY 12601
USA
e-mail: lisa@us.ibm.com

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.

SCOPE

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

URL: http://www.inf.ufrgs.br/ifip10-5/

Chair

Prof. Michel ROBERT
University Montpellier
LIRMM
161 rue Ada
FR-34392 MONTPELLIER,
France
Tel. +33 467 418518
Fax +33 467 418500
e-mail: Michel.Robert@lirmm.fr

Vice-Chairs

Prof. Ricardo REIS
Universidade Federal do Rio Grande do Sul
Av. Bento Goncalves, 9500
BR-91501-970 PORTO ALEGRE, Brasil
Tel. +55 51 3316 9500
Fax +55 51 3316 7308
e-mail: reis@inf.ufrgs.br

Prof. Luis M. SILVEIRA
University of Lisboa
INESC/IST
Rua Alves Redol, 9, 136
PT-1000-029 LISBOA, Portugal
Tel. +351 21 3100337
Fax +351 21 3145843
e-mail: lms@inesc-id.pt

AU George J. Milne
AU Adam Postula
BE Luc Claesen
BR Flavio R. Wagner
ES Carlos Delgado Kloos
ES Eugenio Villar
FR Francois Anceau*
FR Przemyslaw Bakowski
PL Adam Pawlak
RU Alexander L. Stempkovsky
TW Jing-Yang Jou
US Mario R. Barbacci

CA	David Agnew*	FR	Dominique Borrione	US	Franc Brglez
CA	Eduard Cerny	FR	Ahmed Jerraya	US	Edmund M. Clarke Jr.
CA	Dan J. Gale	FR	Jean Mermet	US	Joe P. Damore*
DE	Jürgen Becker	GB	Martyn Edwards	US	John A. Darringer
DE	Werner Damm*	GB	Peter A. Ivey	US	Nikil Dutt
DE	Hans Eveking	GB	Gerry Musgrave	US	Graham R. Hellestrand
DE	Manfred Glesner	GR	Odysseas Koufopavlou	US	Warren A. Hunt Jr.
DE	Werner Grass*	GR	Dimitrios Soudris	US	Steven D. Johnson
DE	Reiner W. Hartenstein	IT	Enrico Macii	US	David C. Luckham
DE	Tiziana Margaria	IT	Donatella Sciuto	US	Giovanni De Micheli
DE	Klaus D. Müller-Glaser	JP	Masahiro Fujita*	US	Vincent Mooney III
DE	Wolfgang Nebel	JP	Masaharu Imai	US	Hillel Ofek
DE	Robert Piloty	JP	Osamu Karatsu*	US	Pasupathi A. Subrahmanyam*
DE	Franz J. Rammig	JP	Akihiko Yamada	US	Ronald Waxman
DE	Wolfgang Rosenstiel	KR	Kiyoung Choi	US	John Willis
DE	Peter Schwarz	NO	Einar Aas	US	Wayne Wolf
ES	David Atienza				

*) honorary member

SIG 10.5.1 CHARME (Special Interest Group on Formal Design and Verification Methods for Correct Hardware-like Systems)

URL: http://www.cs.indiana.edu/~sjohnson/sig-charme/

Chair

Prof. Steven D. JOHNSON
University of Indiana
Computer Science Dept.
Lindley Hall, Room 215
150 S. Woodlawn
BLOOMINGTON,
IN 47405-7104, USA
Tel. +1 812 855 2567
Fax +1 812 855 4829
e-mail: sjohnson@cs.indiana.edu

BE	Luc Claesen	GB	Tom Melham	US	Byron Cook
CA	Mark Aagaard	GB	Alan Mycroft	US	Ganesh Gopalakrishnan
CA	Alan J. Hu	GB	Ken Turner	US	Warren A. Hunt
DE	Hans Eveking	IL	Danny Geist	US	Andrew Martin
DE	Thomas Kropf	IL	Sagi Katz	US	Ken McMillan
DE	Tiziana Margaria	IL	Yossi Malkal	US	John O'Leary
FR	Dominique Borrione	IT	Benedetto Intrigila	US	Kanna Shimizu
FR	Nicolas Halbwachs	IT	Enrico Tronci	US	Miroslav Velev
FR	Laurence Pierre	SE	Mary Sheeran		

TC 11 (SECURITY AND PRIVACY PROTECTION IN INFORMATION PROCESSING SYSTEMS)

est. 1984, revised 2006

AIMS

To increase the reliability and general confidence in information processing, as well as to act as a forum for security managers and others professionally active in the field of information processing security.

SCOPE

- the establishment of a common frame of reference for security in organizations, professions and the public domain;
- the exchange of practical experience in security work;
- the dissemination of information on and the evaluation of current and future protective techniques;
- the promotion of security and protection as essential elements of information processing systems.

URL: www.tc11.uni-frankfurt.de

Chair
Prof.Dr. Kai RANNENBERG, DE
Goethe University Frankfurt
Mobile Business and
Multilateral Security
Grueneburgplatz 1
DE-60629 FRANKFURT/MAIN
Germany
Tel. +49 69 798 34701
www.m-chair.net
e-mail: kai.rannenberg@m-chair.net

Vice-Chair
Prof. Rossouw von SOLMS, ZA
Nelson Mandela Metropolitan
University
Institute for ICT Advancement
School of ICT
Summerstrand (North)
P.O. Box 77000
PORT ELIZABETH 6031
South Africa
Tel. +27 41 504 3604
Fax +27 41 504 3313
e-mail:
rossouw.vonsolms@nmmu.ac.za

Secretary
Prof. Lech J. JANCZEWSKI, NZ
The University of Auckland
Dept. of ISOM
Private Bag 92019
Old Choral Hall
7, Symonds Street
AUCKLAND, New Zealand
Tel. +64 9 373 7599 87538
Fax +64 9 373 7430
e-mail: lech@auckland.ac.nz

AT	Ingrid Schaumueller-Bichl	DE	Hartmut Pohl	NL	Jaap-Henk Hoepman
AU	William J. Caelli	DK	Jakob Illeborg Pagter	NL	Leon Strous
AU	Vijay Varadharajan	ES	Francisco Javier López-Muñoz	NO	Annikken Seip
BE	Bart De Decker	FI	Teemupekka Virtanen	PT	Pedro Manuel Barbosa Veiga
BR	Carlos Maziero	GR	Dimitris Gritzalis	SE	Louise Yngstrom
BG	Valentin Kisimov	HU	György Papp	SI	Tatjana Welzer
CH	Carlos Rieder	IN	Rama K. Subramaniam	SK	Jozef Vyskoc
CL	Alejandro Hevia	IT	Pierangela Samarati	US	Carl E. Landwehr (ACM)
CN	Sihan Qing	JP	Yuko Murayama	US	Yves Deswarte (IEEE)
CY	Philippos Peleties	JP	Ryoichi Sasaki	ZA	Jan H. P. Eloff
CZ	Dagmar Brechlerova	KR	Seung-Won Sohn	ZW	Geoff Fairall

ex-officio members: WG Chairs

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.

SCOPE

- 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.

URL: http://www.cisnr.org/ifip

Chair
Prof. Steven M. FURNELL
University of Plymouth
Drake Circus
PLYMOUTH PL4 8AA, UK
Tel. +44 1752 233521
Fax +44 1752 233520
e-mail: sfurnell@cisnr.org

Vice-Chair
Prof. Gurpreet DHILLON
Dept.of Information Systems
VCU School of Business
1015 Floyd Avenue
RICHMOND, VA 23284
USA
Tel. +1 804 828 3183
e-mail: gdhillon@vcu.edu

Secretary
Dr. Paul S. DOWLAND
University of Plymouth
Drake Circus
PLYMOUTH PL4 8AA, UK
Tel. +44 1752 232513
Fax +44 1752 233520
e-mail: pdowland@cisnr.org

AU	Atif Ahmad	GB	Neil Doherty	PL	Andrzej Bialas
AU	William Hutchinson	GB	Jean-Noel Ezingeard	PK	Muhammad Ali Paracha
AU	Sharman Lichtenstein	GB	Athanasios Karakasiliotis	SE	Jabiri Bakari
AU	Sean Maynard	GB	Dimitrios Michalopoulos	SE	Albin Zuccato
AU	Malcolm R. Pattinson	GB	Jeremy Ward	US	Jagdish Gangolly
AU	Matthew Warren	IT	Julian Rrushi	US	Timothy Goles
CO	Jeimy Cano	MY	Yang Guo	US	Murray Jennex
FI	Jorma Kajava	MY	Omar Zakaria	US	Vijay Masurkar
FI	Reijo Savola	NL	Clemens Willemsen	ZA	Carl Grundling
FI	Teemupekka Virtanen	NO	Annikken Seip	ZA	Rossouw von Solms
GB	Nathan Clarke	NZ	Pradeep Navalkar	ZW	Anthony Kunaka

WG11.2 - Small System Security est. 1985, revised 1992, 1995

AIMS

To investigate methods and issues in the area of information security, particularly those related to small systems.

SCOPE

- to promote awareness and understanding of small systems security.
- to provide a forum for the discussion and understanding of small system security matters
- to advance technologies and methodologies that support small systems security
- to contribute, as feasible and appropriate, to international standards for small system security

STATEMENT OF CASE
Small systems shall be defined to include personal computers, local area networks, multi-user and similar installations where there is typically no-one dedicated to security administration and the end user(s) are in the main responsible for system administration. It is the management of all organizations who are responsible for the reliable and secure operation of information systems which support the organization. Thus, it is management who must address security issues in the small systems environment.

URL: http://www.cs.ru.nl/ifip-wg11.2/

Chair
Dr. Jaap-Henk HOEPMAN
Radbound University Nijmegen
Security of Systems Group
PO Box 9010
NL-6500 GL NIJMEGEN
The Netherlands
Tel. +31 24 3652599
e-mail: jhh@cs.ru.nl

Vice-Chairs
Dr. Sjouke MAUW
Eindhoven University of Technology
Formal Methods Group
Computing Science Department
P.O. Box 513
NL-5600 MB EINDHOVEN
The Netherlands
Tel. +31 40 2472908
Fax +31 40 2475361
e-mail: sjouke@win.tue.nl

Prof. Damien SAUVERON
Université de Limoges/CNRS
XLIM Institut de Recherche
Site Jidé, 83 rue d'Isle
FR-87000 LIMOGES, France
Tel. +335 55 43 69 83
Fax +335 55 43 69 77
e-mail: Damien.Sauveron@xlim.fr

Secretary
Dr. Erik POLL
Radboud University Nijmegen
Dep. of Computing Science
Faculty of Science, Mathematics and Computer Science
Toernooiveld 1
NL-6525 ED NIJMEGEN
The Netherlands
Tel. +31 24 365 2710
Fax +31 24 365 2298
e-mail: erikpoll@cs.ru.nl

Member list under construction

WG11.3 - Data and Application Security est. 1987, revised 2001

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 technology for enhancing the security of database systems.

SCOPE
To advance technologies that support:

- the statement of security requirements for database systems;
- the design, implementation, and operation of database systems that include security functions;
- the assurance that implemented data management systems meet their security requirements.

URL: http://seclab.dti.unimi.it/~ifip113/

Chair
Prof. Vijay ATLURI
Rutgers University
MS/CIS Department
180 University Ave.
NEWARK, NJ 07102, USA
Tel. +1 973 353 1642]
Fax +1 973 353 5033
e-mail:
atluri@andromeda.rutgers.edu

Vice-Chair
Prof. Sabrina DE CAPITANI DI VIMERCATI
Università degli Studi di Milano
DTI - Dipartimento di Tecnologie dell'Informazione
Via Bramante 65
IT-26013 CREMA, Italy
Tel.: +39 0373898 057
Fax: +39 0373898 010
e-mail: decapita@dti.unimi.it

Secretary
Mr. Claudio A. ARDAGNA
University of Milan
Department of Information Technologies
Via Bramante 65
IT-26013 CREMA, Italy
Tel. +39 0373 898 048
Fax +39 0373 898 010
e-mail: ardagna@dti.unimi.it

AT	Wolfgang Essmayr	NL	Wouter G. Teepe	US	Catherine McCollum
AU	Yun Bai	US	Gail-Joon Ahn	US	John McDermott
AU	Zahir Tari	US	Steven J. Bauer	US	Catherine A. Meadows
CA	Cecilia Ionita	US	Leonard J. Binns	US	Ulf Mattsson
CA	Matunda Nyanchama	US	Rae K. Burns	US	J .Bret Michael
CA	Stanley Robson de M. Oliveira	US	John Campbell	US	Roger L. Miller
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CH	Dirk Jonscher	US	C. Y. Chung	US	Ira Moskowitz
CN	Xiaoling Zuo	US	Lawrence Cox	US	Ravi Mukkamala
DE	Joachim Biskup	US	Steven A. Demurjian	US	LouAnna Notargiacomo
DE	Hans H. Brüggemann	US	Premkumar Devanbu	US	Glen Nuckolls
DE	Yucel Karabulut	US	Csilla Farkas	US	James O'Connor
DE	Thomas Leineweber	US	Eduardo B. Fernandez	US	Shankar Pal
DE	Astrid Lubinski	US	Jarrellann Filsinger	US	Brajendra Panda
DE	Guenther Pernul	US	Michael Gertz	US	Thomas Parenty
DE	Torsten Priebe	US	Anup K. Ghosh	US	Joon S. Park
DE	Adrian Spalka	US	Rajni Goel	US	Shelly Qian
ES	Marta Oliva	US	John Hale	US	Indrajit Ray
FR	Jerome Carrere	US	Bret Hartman	US	Indrakshi Ray
FR	Frederic Cuppens	US	Ronda Henning	US	James C. Reynolds
FR	Alban Gabillon	US	William R. Herndon	US	Arnon Rosenthal
GB	Steve Barker	US	Thomas H. Hinke	US	Ravi Sandhu
GB	David W. Chadwick	US	Hilary Hosmer	US	Marvin Schaefer
GB	John Dobson	US	Mei-Yu Hu	US	Sujeet Shenoi
GB	Ken Moody	US	Wei-Kuang Huang	US	Gary W. Smith
GB	Simon Wiseman	US	Sushil Jajodia	US	Sang H. Son
GR	Ioannis Mavridis	US	Hasan M. Jamil	US	David L. Spooner
GR	George Pangalos	US	Thomas Johnsten	US	Gerhard Steinke
IL	Ehud Gudes	US	Antoun Kanawati	US	Latanya Arvette Sweeney
IN	K. Subramanian	US	Savith Kandala	US	Roshan Thomas
IT	Francesco Bergadano	US	Myong Kang	US	Dan J. Thomsen
IT	Elisa Bertino	US	Thomas F. Keefe	US	Bhavani Thuraisingham
IT	Silvana Castano	US	Richard Kemmerer	US	T.C. Ting
IT	Ernesto Damiani	US	Carl E. Landwehr	US	Tyrone Sterling Toland
IT	Elena Ferrari	US	T.Y. Lin	US	Duminda Wijesekera
IT	Pierangela Samarati	US	Peng Liu	US	Marianne Winslett
LB	Marie Khair	US	Gary Lorenz	US	Christina Yip Chung
NL	Waltraud Gerhardt	US	Teresa Lunt	ZA	Lucas Dreyer
NL	Reind P. v.d. Riet	US	Adam A. Madoukh	ZA	Martin Olivier
NL	Radu Serban	US	Donald G. Marks		

WG11.4 - Network & Distributed Systems Security est. 1985, revised 1992, 1997, 2003

AIMS

- to promote research on technical measures for securing computer networks, including both hardware- and software-based techniques;
- to promote dissemination of research results on network secutity in real-life networks in industry, academia and administrative institutions;
- to promote education in the application of security techniques, and to
- promote general awareness about security problems in the broad field of information technology.

SCOPE

Research on network security is understood to encompass at least the following topics:

- cryptographic techniques and their applications (confidentiality, digital signatures, integrity checking, ...);
- cryptographic protocols, including protocols for authentication, key distribution, electronic voting, electronic commerce, digital cash, ...
- practical implementations of cryptographic protocols in network security systems (Kerberos, SSL, KryptoKnight, ...);
- secure mobile code (language based security, Java Security, proof-carrying code, code signing, meta-level protocols for security, aspect languages for security, ...);
- security from a software engineering point of view; adding security to applications in an orthogonal way using meta-level protocols, aspect languages, secure software engineering ...;
- firewalls;
- software for intrusion detection and audit tools.

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.

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

Chair
Dr. Jan CAMENISCH
IBM Research
Zurich Research Laboratory
Säumerstrasse 4
CH-8803 RUESCHLIKON
Switzerland
Tel. +41 44 724 8279
Fax +41 44 724 8953
e-mail: jca@zurich.ibm.com

Vice-Chair
Prof. Dogan KESDOGAN
University Siegen
Postfach
DE-57068 SIEGEN
Germany
Tel. +49-271-740-3040
Fax +49-271-740-2372
e-mail: kesdogan@fb5.uni-siegen.de

Secretary
Mr. Michalis GEORGIOU
Cyprus College
MIS Dept.
6, Diogenes Str., Engomi
PO Box 22006
CY-1516 NICOSIA
Cyprus
Tel. +357 2271 3000
Fax +357 2266 2051
e-mail: michgeo@cycollege.ac.cy

AT	Richard Gronvins	GR	Victoria Daskalou	US	Randall Atkinson
AU	L. O'Connor	GR	Anna Kefala	US	Matt Bishop
BE	Bart de Decker	GR	Kostas Moulinos	US	Lester Fraim
CH	Rolf Oppliger	GR	Nikitas Nikitakos	US	Rolf Moulton
DE	A. Pfitzmann	GR	Eleni Polidorou	US	Frank O'Reilly
DE	Kai Rannenberg	NZ	Andrew Mason	US	Gene Schultz
EG	Mahmoud T. El-Hadidi	SE	Othman Dridi	US	Eugene Spafford
FR	Refik Molva	US	Milton Anderson	ZA	Basie von Solms
GB	Steven Furnell				

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.

SCOPE

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.

Chair
Mrs. Elisabeth DE LEEUW-LECEUR
Ordina Infrastructure Solutions
Ringwade 1
3439 LM Nieuwegein
Postbus 7101
NL-3430 JC NIEUWEGEIN
The Netherlands
Tel. +31 30 6638300
e-mail: elisabeth.de.leeuw@ordina.nl

Vice-Chair
Prof. Simone FISCHER-HUEBNER
Karlstad University
Department of Computer Science
Universitetsgatan 2
SE-651 88 KARLSTAD
Sweden
Tel. +46 54 700 1723
Fax +46 54 700 1828
e-mail: simone.fischer-huebner@kau.se

AT	Herbert Leitold	FR	Gerard Chollet	NL	Leon Strous
AT	Reinhard Posch	GB	Nathan Clarke	NL	Jimmy C. Tseng
BE	Jos Dumortier	GB	Eddy Higgs	NL	Raymond Veldhuis
CA	Ann Cavoukian	GB	Chrispin Yuen	NL	Brenno de Winter
CH	Andrzej Drygajlo	GR	Stephanos Gritzalis	NZ	Miriam Lips
DE	Marit Hansen	NL	Egbert Dijkgraaf	SE	Hans Hedbom
DE	Martin Meints	NL	Zeno Geradts	SG	Kwok-Yan Lam
DE	Kai Rannenberg	NL	Bart Jacobs	US	Bill Willis
ES	Fernando Cruz	NL	Ronald Leenes	US	Charles Yanak
ES	Petro Luis Muñioz	NL	Ruud van Munster	ZA	Keith Breckenridge
ES	Aljosa Passic	NL	Max Snijder		

WG 11.7 (joint with WG9.6; see TC9)

WG11.8 - Information Security Education est. 1991

AIMS

To promote information security education and training at the university level and in government and industry.

SCOPE

- To establish an international resource center for the exchange of information about education and training in information security.
- To develop model courses in information security at the university level.

- To 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.
- To 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.
- To promote an appropriate module about information security to colleges and universities, industry and govern-ment.
- To collect, exchange and disseminate information, relating to information security courses conducted by private organizations for industry.
- To collect and periodically disseminate an annotated bibliography of information security books, feature articles, reports, and other educational media.

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

Chair
Colonel Daniel RAGSDALE
US Military Academy
Dept. Electrical Eng. & Computer Science
601 Thayer Rd.
WEST POINT
NY, 10996-1695
USA
Tel. +1 914 938 4628
Fax +1 914 938 3807
e-mail: daniel.ragsdale@usma.edu

Vice-Chairs
Prof. Natalia MILOSLAVSKAYA
Moscow Physics Engineering Institute (State University)
Information Security Faculty
44 Deptartment MEPhI
31 Kashirskoye shosse
RU-MOSCOW 115409, Russia
Tel. +7 095 3239084
Fax +7 095 3239086
e-mail: milmur@mephi.edu

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

Secretary
Lt. Col. Ronald DODGE
US Military Academy
Dept. Electrical Eng. & Computer Science
601 Thayer Rd.
WEST POINT
NY, 10996-1695
USA
Tel. +1 845 938 5569
Fax +1 845 938 3807
e-mail: ronald.dodge@usma.edu

Member list under construction

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.

SCOPE
The scope of the WG9.11 group is
- 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.

URL: www.ifip119.org

Chair
Mr. Mark POLLITT
University of Central Florida
Dept.of Engineering Technology
National Center for Forensic Science
PO Box 162367
ORLANDO, FL 32816-2367
USA
Tel. +1 407 823 0842
Fax +1 407-823-3162
e-mail: mpollit@mail.ucf.edu

Vice-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 3636x4281
e-mail: gilbert.peterson@afit.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	Jill Slay	US	Yong Guan	US	Vassil Roussev
FR	Thomas Duval	US	Warren Harrison	US	Kulesh Shanmugasundaram
FR	Bernard Jouga	US	Mark Hartong	US	Peter Stephenson
GB	Jonathan Clark	US	Patrick Juola	US	Christopher Swenson
IN	Indrajit Ray	US	Michael Losavio	US	Anthony Whitledge
JP	Ryoichi Sasaki	US	Gavin Manes	US	Duminda Wijesekera
NO	Svein Willassen	US	Daniel Massey	ZA	Bennie Fei
US	Charles Adams	US	Nasir Memon	ZA	Anna Granova
US	Nicole Beebe	US	James Okolica	ZA	Cornelia Grobler
US	Paul Burke	US	Kevin O'Shea	ZA	Barry Irwin
US	Xixin Chen	US	Mauricio Papa	ZA	Rut Laubscher
US	Philip Craiger	US	Anthony Persaud	ZA	Martin Olivier
US	David Dampier	US	Scott Redding	ZA	Colette Trompeter
US	Mark Davis	US	H. Richard Reeve	ZA	Hein Venter
US	Rajni Goel	US	Golden Richard III	ZA	Cobus Venter
US	David Greer	US	Marcus Rogers		

WG 11.10 - 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.

SCOPE

- 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.

URL: http://www.cis.utulsa.edu/ifip1110

Chair
Dr. Sujet 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

Vice-Chair
Mr. Eric GOETZ
I3P/Dartmouth College
Institute For Information Infrastructure Protection
HANOVER, NH 03755
USA
Tel. +1 603-646-0787
e-mail: eric.d.goetz@dartmouth.edu

AU	Andrew Clark	SE	Svante Barck-Holst	US	Seok-Won Lee
AU	Jill Slay	SE	Linda Englund	US	Ulf Lindqvist
AU	Craig Valli	SE	Malin Fylkner	US	Nemo Lionikis
CA	Eric Byres	SG	Chung-Pheng Tan	US	Debin Liu
CA	John Kluver	SG	Kuan Seah Chua	US	Bruce McMillin
CA	Tyson Macaulay	TW	Chris Kuo	US	Wayne Meitzler
CH	Myriam Dunn	TW	Shuen Chih Tsai	US	Ann Miller
CH	Tillman Schulze	US	Zahid Anwar	US	Krishna Moleyar
CN	Rocky Chang	US	Robert Bruce	US	Robert Mullen
DE	Felix Flentge	US	Jonathan Butts	US	Suvda Myagmar
DE	Sebastian Hess	US	Rodrigo Chandia	US	David Nicol
ES	Cristina Alcaraz Tello	US	Christine Coldwell	US	Hamed Okhravi
ES	Javier Lopez	US	Benjamin Cook	US	Paul Oman
FR	Abou El Kala Anas	US	Paul Craven	US	Charles Palmer
FR	Amine Baina	US	Robert Cunningham	US	Mauricio Papa
GB	Maitland Hyslop	US	Andrew Dagley	US	Jeffrey Picciotto
GB	Tyler Moore	US	Anita D'Amico	US	Christine Pommerening
GB	Neil Robinson	US	Matthew Devost	US	Rick Raines
IL	Dan Assaf	US	Bruno Dutertre	US	Indrajit Ray
IT	Sandro Bologna	US	Scott Dynes	US	Carlos Restrepo
IT	Ettore Bompard	US	Regis Friend-Cassidy	US	Mason Rice
IT	Emiliano Casalicchio	US	Richard George	US	Rachel Rue
IT	Paolo Donzelli	US	Adrian Gheorghe	US	Marcus Sachs
IT	Igor Nai Fovino	US	John Gledhill	US	William Sanders
IT	Marcelo Masera	US	Rajni Goel	US	Joost Santos
IT	Alberto Paoluzzi	US	Seymour Goodman	US	Rick Schlichting
IT	Julian Rrushi	US	James Graham	US	Christine Shepherd
IT	Roberto Setola	US	Yacov Haimes	US	Bryan Singer
IT	Michele Vicentino	US	Mark Hartong	US	Michael Spainhower
JP	Hideaki Kobayashi	US	Jeffrey Hieb	US	Paul Thompson
JP	Kenji Watanabe	US	Rob Hoffman	US	William Tolone
JP	Toshinobu Yasuhira	US	Janet Hopkinson	US	Ron Trellue
KR	Insub Shin	US	Peter Huitsing	US	Zach Tudor
NL	Marieke Klaver	US	Jeffrey Hunker	US	Sid Valentine
NL	Eric Luiijf	US	Eric Johnson	US	Jim Watters
NO	Stig Johnsen	US	Himanshu Khurana	US	Duminda Wijesekera
NO	Nils Svendsen	US	Michael Kolbe	US	Dorsey Wilkin
NO	Steven Wolthusen	US	Jason Kopylec	US	Rae Zimmerman
NZ	Malcolm Shore	US	Michael Lavine	ZA	Les Labuschagne
RO	Liviu Muresan	US	Shari Lawrence-Pfleeger	ZA	Martin Olivier

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)

Chair
Dr. Javier LOPEZ- MUÑOZ
Universidad de Málaga
E.T.S. de Ingeniería Informática
Campus Teatinos
ES-29071 MALAGA
Spain
Tel. +34 95 213 13 27
Fax +34 95 213 13 97
e-mail: jlm@lcc.uma.es

Vice-Chair
Theo DIMITRAKOS
British Telecom
Security Research Centre
Adastral Park, Martleham Heath,
Ipswich
SUFFOLK, IP5 3RE
United Kingdom
Tel. +44 1473 646706
e-mail: theo.dimitrakos@bt.com

Secretary
Dr. Stephen MARSH
NRC Institute for Information Technology
55 Crowley Farm Road, Suite 1100-C, Scientific Park
CA-MONCTON, NB E1A 7R1
Canada
Tel. +1 506 861-0965
Fax +1 506 851 3630e-mail: Stephen.Marsh@nrc-cnrc.gc.ca

Dr. Sandro ETALLE
University of Twente
Distributed and Embedded Systems Group
P.O. Box 217
NL-7500 AE ENSCHEDE
The Netherlands
Tel. +31 53 4891195
Fax +31 53 4894047
e-mail: sandro.etalle@utwente.nl

AU	Audun Josang	IE	Paddy Nixon	US	Ningui Li
DK	Christian Jensen	IT	Fabio Martinelli	US	John Mitchell
FR	Valerie Issarny	IT	Fabio Massacci	US	Simon Shiu
GB	Stefan Poslad	NO	Peter Herrmann	US	Will Winsborough
GR	Christos Nikolaou	NO	Ketil Stolen	US	Marianne Winslett

TC 12 (ARTIFICAL INTELLIGENCE) 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.

SCOPE

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

URL: http://www.ifiptc12.org/

Chair
Prof. Max A. BRAMER, GB
University of Portsmouth
School of Computing
Buckingham Building
Lion Terrace
PORTSMOUTH, PO1 3HE
Hants, United Kingdom
Tel. +44 2392 846380
Fax +44 2392 846364
e-mail: max.bramer@port.ac.uk

Secretary
Prof. John DEBENHAM, AU
Univ. of Technology, Sydney
Faculty of Inf. Technology
PO Box 123
BROADWAY, NSW 2007
Australia
Tel. +61 2 9514 1837
Fax +61 2 9514 1807
e-mail: debenham@it.uts.edu.au

AR	Analia Amandi
AT	Werner Horn
BE	Pierre-Yves Schobbens
BG	Vassil Sgurev
CL	Mauricio Solar
CLEI	Enrique González Guerrero**
CN	Zhongzhi Shi
CZ	Olga Stepankova
DK	Brian Mayoh
ES	Ramon López de Mántaras
FI	Timo Honkela
FR	Jean Paul Haton
FR	Eunika Mercier-Laurent (AFIA)
GR	Ilias Maglogiannis
GR	Constantine D. Spyropoulos
HR	Nikola Bogunović
HU	Ivan Futo
IN	P V S Rao
IT	Luigia Carlucci-Aiello
JP	Toyoaki Nishida
LT	Gintautas Dzemyda
NL	Joost Kok
NO	Agnar Aamodt
NZ	Nikola Kasabov**
PT	Helder Manuel Ferreira Coelho
RS	Vladan Devedzic
RS	Nenad Stefanović
SE	Erik Sandewall
SI	Matjaz Gams
SK	Pavol Navrat
US	Daniel O'Leary (IEEE)
US	Andrea Omicini (ACM)

ex-officio members: WG Chairs

*) affiliate member
**) corresponding member

WG12.1 - Knowledge Representation and Reasoning est. 2004

AIM
To study and develop theory and techniques for knowledge representation and reasoning.

SCOPE
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

Chair
Prof. Timo HONKELA
Helsinki University
of Technology
Laboratory of Computer and
Information Science
P.O.Box 5400
FI-02015 HUT, Finland
e-mail: timo.honkela@hut.fi

Member list under construction

WG12.2 - Machine Learning and Data Mining est. 1993, revised 2003, 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.

SCOPE
- 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

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

Chair
Prof. Zhongzhi SHI
Institute of Computing Technology,
Chinese Academy of Sciences
Kexueyuan Nanlu
#6, Haidan District
P.O. Box 2704
CN-100080 BEIJING
China
Tel. +86 10 82610254
Fax +86 10 62567724
e-mail: shizz@ics.ict.ac.cn

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
Dr. Nicolas BREDECHE
Université Paris-Sud
Laboratoire de Recherche en
Informatique
Bâtiment 490
FR-91405 ORSAY
France
Tel. +33 1 69 15 76 02
Fax +33 1 69 15 65 86
e-mail: bredeche@lri.fr

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

WG12.3 - Intelligent Agents est. 2003

AIMS
To study and develop theory and techniques for intelligent agents.

SCOPE
- Theory and agent modelling
- 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

Chair
Prof. Wiebe van der HOEK
University of Liverpool
Dept. of Computer Science
LIVERPOOL L69 7ZF, UK
Tel. +44 151 794 3672/7480
Fax.+44 151 794 3715
e-mail: wiebe@csc.liv.ac.uk

Vice-Chair
Prof. John DEBENHAM
Univ. of Technology, Sydney
Faculty of Inf. Technology
PO Box 123
BROADWAY, NSW 2007
Australia
Tel. +61 2 9514 1837
Fax +61 2 9514 1807
e-mail: debenham@it.uts.edu.au

BE	Pierre Yves Schobbens	CN	Zhongzhi Shi	PT	Eugenio Oliveira

WG 12.4/2.12 Semantic Web (joint with TC2)

URL: http://www.ceebi.curtin.edu.au/IFIP/

Chair
Prof. Dr. Tharam DILLON
University of Technology Sydney
Faculty of Inf. Technology
P.O.Box 123
BROADWAY NSW 2007
Australia
Tel. +61 2 9514 1800
Fax +61 2 9514 1810
e-mail: tharam@it.uts.edu.au

Vice-Chairs
Prof. Elizabeth CHANG
Curtin University of Technology
Centre for Extended Enterprise

and Business Intelligence

GPO Box U1987
PERTH WA, 6845, Australia

Tel. +61 8 9266 1235

Fax +61 8 9266 7548

e-mail:
elizabeth.chang@cbs.curtin.edu.au

Prof. Ernesto DAMIANI
Universita degli Studi di Milano
Dipartimento di Tecnologie
dell'Informazione
via Bremante, 65
IT-26013 CREMA
Italy
Tel. +39 02 503 30064
Fax +39 02 503 30010
e-mail: damiani@dti.unimi.it

Secretary

Prof. Elizabeth CHANG
Curtin University of Technology
Centre for Extended Enterprise

and Business Intelligence

GPO Box U1987
PERTH WA, 6845, Australia

Tel. +61 8 9266 1235

Fax +61 8 9266 7548

e-mail:
elizabeth.chang@cbs.curtin.edu.au

Member list under construction

WG12.5 - Artificial Intelligence Applications est. 1993, rev. 2003

AIM
To explore the use of Artificial Intelligence techniques for applications development.

SCOPE
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.

URL: http://www-staff.it.uts.edu.au/~debenham/wg12.5/

Chair
Prof. Max A. BRAMER
University of Portsmouth
School of Computing
Buckingham Building
Lion Terrace
PORTSMOUTH, PO1 3HE
Hants, UK
Tel. +44 2392 846380
Fax +44 2392 846364
e-mail: max.bramer@port.ac.uk

Secretary
Prof. John DEBENHAM
Univ. of Technology, Sydney Faculty
of Inf. Technology
PO Box 123
BROADWAY, NSW 2007
Australia
Tel. +61 2 9514 1837
Fax +61 2 9514 1807
e-mail: debenham@it.uts.edu.au

AU	Eric Tsui	FR	Eunika Mercier-Laurent	NO	Agnar Aamodt
CN	Daoliang Li	GR	Kostas Karpouzis	NO	Weiqin Chen
CS	Zeljko Obrenovic	GR	Ilias Maglogiannis	NZ	Ray Kemp
CZ	Olga Stepankova	GR	Lazaros Polymenakos	NZ	Kinshuk
ES	Ana Garcia-Serrano	IN	Rakesh Mohan Bhatt	NZ	Tanja Mitrovic
FI	Timo Honkela	IT	Luigia Carlucci Aiello	US	Natasha Noy
FI	Vagan Terziyan	IT	Nicola Guarino	US	Daniel O'Leary
FR	Yves Demazeau	NL	Lora Aroyo	ZA	Olusola Abidogun
FR	Anne Dourgnon-Hanoune				

WG12.6 - Knowledge Management est. 1998, rev. 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.

SCOPE

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

URL: http://wg12-6.wetpaint.com

Chair	**Vice-Chair**	**Secretary**
Dr. HDR Eunika MERCIER-LAURENT Knowledge & Innovation Management and IAE Lyon University 620 Chemin des Grives FR-34160 SAINT DREZERY, France Tel. +33 950 154 824 e-mail: eunika@innovation3D.fr	To be announced	To be announced

AU	Peter Dalmaris	FR	Nada Matta	MX	Celso Juan Flores
AU	Eric Tsui	GB	Jessica Chen-Burger	PL	Mieczyslaw Owoc
CA	Olivier Gerbe	GB	Ann Macintosh	TR	Gulgun Kayakutlu
CH	Knut Hinkelmann	GB	Florence Sellini	US	Daniel O'Leary
CH	Ulrich Reimer	IT	Carla Simone	US	Clyde W. Holsapple
FR	Anne Dourgnon-Hanoune				

TC 13 (HUMAN-COMPUTER INTERACTION) 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 "humanization" in system design.

SCOPE

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.).

URL: http://csmobile.upe.ac.za/ifip

Chair
Prof. Annelise Mark PEJTERSEN, DK
Center of Cognitive Systems Engineering
Smørum Bygade 52
DK-2765 SMØRUM
Denmark
Tel. + 45 44 65 20 67
e-mail: ampcse@mail.dk

Vice-Chairs
Prof. Janet L. WESSON, ZA
Nelson Mandela Metropolitan University
Dept. of Computer Science & Information Systems
PO Box 1600
ZA-6031 PORT ELIZABETH
South Africa
Tel. +27 41 504 2323
Fax +27 41 504 2831
e-mail: janet.wesson.@nmmu.ac.za

Mr. Philip D. GRAY, GB
University of Glasgow
Dept.of Computing Science
GLASGOW G12 8QQ Scotland
United Kingdom
Tel. +44 141 330 4933
Fax +44 141 330 4913
e-mail: pdg@dcs.gla.ac.uk

Secretary
Prof. Gitte LINDGAARD, CA
Carleton University
Department of Psychology
1125 Colonel By Drive
CA-OTTAWA, ONTARIO
K1S 5B6, Canada
Tel. +1 613 520 2600 ext. 2255
Fax +1 613 520 3667
e-mail:
gitte_Lindgaard@carleton.ca

Vice Chair
Dr. Lars OESTREICHER, SE
Uppsala University
Dept. of Information Science
PO Box 513
SE-75120 UPPSALA
Sweden
Tel. +46 18 471 10 19
Fax +46 18 52 12 70
e-mail: larsoe@dis.uu.se

AT	Horst Hörtner	FI	Kari-Jouko Räihä	NL	Gerrit van der Veer
AU	Judy Hammond	FR	Philippe Palanque	NO	Svein A. Arnesen
BE	Monique Noirhomme-Fraiture	GR	Nikos Avouris	NZ	Mark Apperley
BR	Simone Barbosa	HU	Cecilia Sik Lanyi	PL	Juliusz L. Kulikowski
CH	Ute Klotz	IS	Marta Larusdottir	PT	Joaquim A. Jorge
CN	Chengqing Zong	IT	Fabio Paterno	SE	Jan Gulliksen*
CZ	Vaclav Matousek	IE	Liam Bannon	SG	Kee Yong Lim
DE	Tom Gross*	IN	Anirudha Joshi	US	Nahum D. Gershon (IEEE)
DE	Horst Oberquelle	JP	Masaaki Kurosu	US	John Karat (ACM)
ES	Julio Abascal	KE	Daniel Orwa		

ex-officio members: WG Chairs
*) expert member

WG13.1 - Education in HCI and HCI Curricula 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

SCOPE

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.

URL: http://www.hcieducation.org

Chair
Prof. Paula KOTZÉ
Meraka Institute
PO Box 395
ZA-PRETORIA 0001
South Africa
Tel. +27 12 841 4791
Fax +27 12 841 4570
e-mail*:*
Paula.Kotze@meraka.org.za

Vice-Chairs
Dr. Lars OESTREICHER
Uppsala University
Dept. of Information Science
PO Box 513
SE-75120 UPPSALA, Sweden
Tel. +46 18 471 10 19
Fax +46 18 52 12 70
e-mail: larsoe@dis.uu.se

Prof. William WONG
Middlesex University
School of Computing Science
The Burroughs, Hendon
LONDON NW4 4BT, U.K.
Tel. +44 20 8411 2684
Fax +44 20 8411 6943
e-mail: w.wong@mdx.ac.uk

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	Peter Purgathofer	IE	Liam Bannon	US	Tom Hewett
AU	Judy Hammond	IT	Sebastiano Bagnara	US	Joseph A. Konstan
AU	Mark Toleman	NL	Matthias Rauterberg	US	Marian G. Williams
BE	Monique Noirhomme-Fraiture	NL	Gerrit van der Veer	ZA	Darelle van Greunen
ES	Julio Abascal	SE	Jan Gulliksen	ZA	Janet Wesson
GB	Alison Varey	US	Jean Gasen		

SIG 13.1 - Interaction Design and International Development est. 2008

AIMS

- To promote application of interaction design research, practice and education to address the needs, desires and aspirations of people in the developing world;
- To support and develop the research, practice and education capabilities of HCI institutions and organisations based in the developing world;
- To develop links between the HCI community in general, and IFIP TC13 in particular, with other relevant communities involved in Development, especially IFIP WG 9.4 Computers in Developing Countries.

Chair
Prof. Andy DEARDEN
Sheffield Hallam University
City Campus
Howard Street
SHEFFIELD, S1 1WB
U.K.
Tel. +44 114 225 2916
Fax +44 114 225 3161
e-mail: A.M.Dearden@shu.ac.ukis

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

WG13.2 - Methodology for User Centered System 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.

SCOPE

- 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.

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

Chair
Prof. Dr. Peter FORBRIG
Universität Rostock
Fachbereich Informatik
Albert-Einstein-Straße 21
DE-18051 ROSTOCK
Germany
Tel. +49 381 498 7620
Fax +49 381 498 7482
e-mail: Peter.Forbig@informatik.uni-rostock.de

Vice-Chair
Dr. Regina BERNHAUPT
Universität Salzburg
ICT&S-Center
Sigmund-Haffner-Gasse 18
AT-5020 SALZBURG
Austria
Tel. +43 662 8044 4814
Fax +43 662 6389 4800
e-mail: Regina.Bernhaupt@sbg.ac.at

Secretary
Prof. Janet L. WESSON
Nelson Mandela Metropolitan University
Department of Computer Science &Information Systems
PO Box 77000
ZA-6031 PORT ELIZABETH
South Africa
Tel. +27 41 504 2323
Fax +27 41 504 2831
e-mail: janet.wesson@nmmu.ac.za

Vice-Chair
Prof. Jan GULLIKSEN
Uppsala University
Department for Information
Technology/Human Computer
Interaction
Box 337
SE-751 05 UPPSALA, Sweden
Tel. +46 18 471 2849
Fax +46 18 471 7811
e-mail: jan.gulliksen@it.uu.se

AU	Judy Hammond	ES	Francisco Montero	GB	Susan Harker
BR	Simone Barbosa	FR	Bertrand David	GB	Alistair Sutcliffe
CA	Ahmed Seffah	FR	Philippe Palanque	IT	Fabio Paterno
DE	Jan Borchers	FR	Marco Antonio A. Winckler	NL	Matthias Rauterberg
DE	Eduard Metzker	SE	Inger Boivie	NL	Martijn van Welie
DE	Daniel Sinnig	SE	Ake Walldius	NO	Jan Havard Skjetne
DK	Morten Borup Harning	GB	David Benyon	US	John M. Carroll
DK	Annelise Mark-Pejtersen	GB	Andrew Dearden	US	John Karat
ES	Xavier Ferre				

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.

SCOPE

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.

URL: http://www.info.fundp.ac.be/IFIP13-3/

Chair
Prof. Dr. Gerhard WEBER
Technical University Dresden
Institute for Applied Computer Science
Nöthnitzer Str.46
DE-01187 DRESDEN
Germany
Tel. +49 351 463 38467
Fax +49 351 463 38491
e-mail: g.weber@hci-research.de

Vice-Chair
Prof. Helen PETRIE
University of York
Department of Computer Science
Heslington
YORK YO10 5DD, U.K.
Tel. +44 1904 434 336
Fax +44 1904 432 767
e-mail: helen.petrie@cs.york.ac.uk

Secretary
Ms. Colette A. NICOLLE
Loughborough University
Ergonomics and Safety
Research Institute (ESRI)
Holywell Building
Holywell Way
LOUGHBOROUGH,
LE11 3TU, U.K.
Tel. +44 1509 226 900
Fax.+44 1509 226 960
e-mail: c.a.nicolle@lboro.ac.uk

AT	Klaus Miesenberger	FI	Ilkka Saarnio	GR	John Darzentas
AU	Robert Pedlow	GB	Norman Alm	GR	Constantine Stephanidis
BE	Anne de Baenst	GB	Lesley Axelrod	NL	Mathijs Soede
BE	Jan Engelen	GB	Geoff Busby	NL	M.A. Neerincx
BE	Monique Noirhomme-Fraiture	GB	David Colven	NL	Floris van Nes
DE	Klaus Fellbaum	GB	Julie Howell	PT	Luis Azevedo
DE	Carlos A. Velasco	GB	Caroline Jarrett	SE	Jan Gulliksen
DE	Gerhard Weber	GB	Martin Maguire	SE	Clas Thoren
ES	Julio Abascal	GB	Jim S. Sandhu	US	Gregg C. Vanderheiden

WG13.4 (joint with WG2.7; see TC2)

WG13.5 - Human Error, Safety and System Development est. 1998

AIMS
This working group aims to support practitioners, regulators and researchers to develop leading edge techniques in hazard analysis and the safety engineering of 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.

SCOPE
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 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.

URL: http://www.dcs.gla.ac.uk/johnson/IFIP_WG13.5

Chair
Prof. Philippe PALANQUE
University Paul Sabatier
Toulouse III
LLIHS-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

Vice-Chair
Mr. Ronald BORING
Idaho National Laboratory
PO Box 1625
IDAHO FALLS
ID 83415-3605, USA
Tel. +1 208 526 0966
Fax +1 208 526 2777
e-mail: ronald.boring@inl.gov

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

BE D. Javaux
CA J. Davies
CA K. Vicente
DE P. Ladkin
NL T. van der Schaaf
US S. Bogner
US D. Busse
US D. Woods

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.

SCOPE

A Human-Work Interaction Design group (HWID) will 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.

URL: http://asp.cbs.dk/hci/hwid/

Chair
Dr. Torkil CLEMMENSEN
Copenhagen Business School
Department of Informatics Howitzvej 60, 2.10
DK-2000 FREDERIKSBERG C
Denmark
Tel.: +45 3815 2389
Fax: +45 3815 2401
e-mail: tc.inf@cbs.dk

Vice-Chair
Prof. Annelise Mark PEJTERSEN
Cognitive Systems Engineering
Smørum Bygade 52
DK-2765 SMØRUM
Denmark
Tel. + 45 44 65 20 67
e-mail: ampcse@mail.dk

Secretary
Dr. Rikke Negendahl ORNGREEN
Copenhagen Business School
Department of Informatics
Howitzvej 60, 2.10
DK-2000 FREDERIKSBERG C
Denmark
Tel. +45 3815 2410
Fax +45 3815 2401
e-mail: orngreen@cbs.dk

AU	Helen Hasan	FR	Manuel Zacklad	IS	Ebba Þóra Hvannberg
AU	Toni Robertson	GB	Jose L. Abdelnour-Nocera	IT	Tiziana Catarci*
CA	Matthew Duignan*	GB	David Benyon*	PT	Pedro Campos
CA	Gitte Lindgaard*	GB	Kathy Buckner	PT	Nuno J. Nunes*
DE	Ulrich Thiel	GB	Lynne Dunckley	PT	Cândida M. dos Santos Pereira
DK	Janni Nielsen	GB	Dong-Han Ham	SE	Niklas Johansson
DK	Carsten Yssing	GB	Arminda Lopes	SE	John Layer*
ES	Sergio España*	GB	Simone Rozzi*	SE	Bengt Sandblad*
ES	Oscar Pastor*	GB	William Wong	SG	Kee Yong Lim*
FR	Grégory Bourguin	IE	Liam Bannon	US	Raya Fidel*
FR	Arnaud Lewandowski	IE	Connor Upton*	US	Steven Poltrock*

*) Observers

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.

Chair
Prof. Achim EBERT
University of Kaiserslautern, Research
Center for Artificial Intelligence (DFKI)
Gottlieb-Daimler-Str. DE-67663
KAISERSLAUTERN, Germany
Tel. +49 631 205 3502
Fax +49 631 205-3270
e-mail: achimebert@acm.org

TC 14 (ENTERTAINMENT COMPUTING) est. 2002 as SG16 / approved in 8/06 as TC14, revised 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 haptic and 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

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

Chair
Prof. Ryohei NAKATSU, SG
National University of Singapore
Director, 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: idmdir@nus.edu.sg

Vice-Chair
Prof. Matthias RAUTERBERG, NL
Technical Univ.of Eindhoven
Faculty Industrial Design
Center f. User-System Interaction (IPO)
P.O. Box 513
NL-5600 MB EINDHOVEN
The Netherlands
Tel. +31 40 247 5215
Fax +31 40 243 1930
e-mail: g.w.m.rauterberg@tue.nl

Secretary
Dr. Benjamin SALEM, NL
Technical Univ.of Eindhoven
Dept. Industrial Design
P.O. Box 513
NL-5600 MB EINDHOVEN,
The Netherlands
Tel. +31 40 247 5215
Fax +31 40 247 3285
e-mail: b.i.salem@tue.nl

AU	Steve Hansen	FI	Tony Manninen**	NO	Geir Egil Myhre
AT	Peter Purgathofer	FI	Ville-Veiko Mattila	PT	Nuno Correia
BG	Radoslav Yoshinov	FR	Stephane Natkin	SG	Adrian David Cheok
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CN	Zhigeng Pan	HU	Barnabas Takacs	US	Miguel Encarnacao**
CZ	David Obdrzalek	IE	Richard Reilly	US	Nahum D. Gershon (IEEE)
DE	Rainer Malaka	IT	Paolo Ciancarini	US	Donald Marinelli (ACM)
DE	Leonie Schaeffer**	JP	Takehiko Kamae*	US	Claudio Pinhanez
ES	Pedro A. González Calero	KR	Hyun Seung Yang	ZM	Milner Makuni

*) Honorary member
**) Observing member

WG14.1 – Digital Storytelling est. 2002, revised 2006

SCOPE
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.

Chair
Prof. Marc CAVAZZA
University of Teesside
School of Computing and Mathematics
MIDDLESBROUGH TS1 3BA
UK
Tel. +44 1642 342661
Fax +44 1642 220527
e-mail: m.o.cavazza@tees.ac.uk

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

WG14.2 – Entertainment Robot est. 2004, revised 2006

SCOPE
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.

Chair
Prof. Hitoshi MATSUBARA
Future University-Hakodate
School of Syst. Inf. Science
116-2 Kamedankano
HAKODATE
Hokkaido 041-8655
Japan
e-mail: matsubar@fun.ac.jp

Member list under construction

WG14.3 – Theoretical Basis of Entertainment est. 2004, revised 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.

SCOPE
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.

URL: http://www.org.id.tue.nl/IFIP-WG14.3/

Prof. Matthias RAUTERBERG
Technical Univ. of Eindhoven
Faculty Industrial Design
Center for User-System Interaction
P.O. Box 513
NL-5600 MB EINDHOVEN
The Netherlands
Tel. +31 40 247 5215
Fax +31 40 243 1930
e-mail: g.w.m.rauterberg@tue.nl

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

*) Observing member

WG 14.4 - Games and Entertainment Computing est. 2005, revised 2006

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

URL: http://www.cs.unimaas.nl/IFIP-WG14.4

Chair
Prof. Jaap VAN DEN HERIK
Universiteit van Tilburg
TiCC
Postbus 90153
NL-5000 LE TILBURG
The Netherlands
Tel. +31 13 466 2158
e-mail: h.j.vdnherik@uvt.nl

Vice Chair
Prof. Hiroyuki IIDA
Japan Advanced Institute of
Science and Technology
School of Information Science
Dept.of Information Processing
JP-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	IT	Paolo Ciancarini	NL	Anton Nijholt
DE	André Melzer	KR	Jong Weon Lee	NL	Pieter Spronck
ES	Pedro Gonzalez-Calero	KR	Woontak Woo	NL	Mark Winands
GB	Graham Kendall	KR	Hyun S. Yang	US	Brad Bushman
GB	Abdennour El Rhalibi	NL	Wijnand Ijsselsteijn	US	Timothy Roden

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

AIMS

- Foster the ethical design, development, implementation, applications and use of entertainment computing.
- Encourage surveys and studies on social, ethical and cultural aspects of entertainment computing.
- Develop methodologies for studying social, ethical and cultural implications of entertainment computing.
- 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.

Chair
Prof. Andy SLOANE
Univ. of Wolverhampton
School of Computing & Information Technology
MI-Technology Centre
Wulfruna Street
WOLVERHAMPTON
WV1 1SB, UK
Tel. +44 1902 32 1445
Fax +44 1902 32 1478
e-mail: a.sloane@wlv.ac.uk

Vice Chair
Dr. Lynne BAILLIE
Forschungszentrum Telekommunikation Wien
Tech Gate Vienna
Donau-City-Straße 1/3. Stock
AT-1220 Wien
Austria
Tel.: +43 1 505 28 30-98
Fax: +43 1 505 28 30- 99
Email: baillie@ftw.at

CA	Claire Dormann	HR	Suzana Stojakovic-Celustka	US	Brad Bushman
ES	Porfirio Barroso Asenjo	SG	Ryohei Nakatsu	US	Jeanne Funk
GB	Christopher Zielinski				

WG 14.6 – 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

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, UK
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 26610 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
Tel. +31 (2) 20 592 4332
Fax +31 (0) 20 592 4199
e-mail: P.S.Cesar@cwi.nl

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

WG 14.7 – Art and Entertainment est. 2007

AIMS

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:

- 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.

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

Vice-Chair
Prof. Adrian David CHEOK
National University of Singapore
Dept. of Electrical & Computer
Engineering
Block E4, Level 5, Room 48
4 Engineering Drive 3
SINGAPORE 117576
Singapore
e-mail: eleadc@nus.edu.sg

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
FR Christian Warocquier
GB Roy Ascott
JP Michihiko Mihoh
JP Gert van Tonder
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Eduard DUNDLER

IFIP PUBLICATIONS

IFIP Publisher:

Kelly MORITZ
Springer Science and Business Media
101 Philip Drive
Norwell, MA 02061, U.S.A
Tel: +1 781 681 - 0607
Fax: +1 781 871 - 7507
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IFIP Publications Committee Chairman:

Prof. Albert J. TURNER
2024 Westview Point
SENECA, SC 29672-2436
U.S.A.
Tel. +1 864 882 7509
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