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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 53 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 19th IFIP World Congress was held in in Santiago, Chile from 20 to 25 August 2006 (www.wcc2006.org). The 20th IFIP World Computer Congress will be held in Milan, Italy from 7 to 10 September (www.wcc2008.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 WORLD CONGRESS 2008, MILANO (ITALY)

Italy is Culture

Italy is Fashion

Italy is Tourism

Italy is Sport

Italy is IT

Website: www.wcc2008.org

Italy is host to the World Congress 2008

The next World Computer Congress will be held in Milano, Italy. From 7-10 September 2008, Welcome to the city of fashion, business and of luxury in general. Milan can offer masterpieces like the Duomo cathedral or Leonardo da Vinci's "The Last Supper" but also great hotels and great food. This city is all about worldly pleasures. Shopping is of quasi-religious significance, opera (the lavishly renovated La Scala), theatres and cinemas flourish in this fashionable milieu, as does a hopping club scene and many, many tempting restaurants. But these are only a few faces of a cosmopolitan city as Milan.

Thus IFIP is delighted to be taking the World Congres to Milano, where the national society AICA (*Associazione Italiana per l'Informatica ed il Calcola Automatico*) is geared up to make this the best Congress ever. The venue is the Milan Convention Centre in the centre of the city, with excellent transport facilities.

Italy won over Belgium, Sweden and Singapore. "We are very proud to get through to manage this International Congress in Italy, an important event for all the scientific sector of the information technologies, that is growing in popularity year to year- announed Ivo De Lotto, President of AICA. We're not hiding that we're looking for a greater attendance mainly form the European and American academic sites. For this reason we're strongly involved in developing an extraordinary program that will be disseminated through a massive and continued communication. In addition to the technical conferences, we have cross-cutting sessions that will address industrial needs related to, among others, ICT for Cultural Heritage, Tourism, Sport and Fitness, Textile ad Fashion and the Environment. Moreover we cannot forget that Italy is a country of prime interest from a tourist point of view and all the attendees will benefit from receiving very convenient travel packages" concludes De Lotto.

The scientific programme for the Congress has attracted a record number of full conferences from IFIP's Technical Committees, with 12 already igned up and accepting papers up until January. The Programme Co-Chair responsible for the scientific coordination is Prof Judith Bishop (ZA). "We are delighted at the enthusiasm and high quality of the events offered by the scientists who make IFIP what it is. The World Congress is an event not to be missed. We are looking for a huge participation from around the world IFIP community, which starts with the submission of papers. Consult the website for individual conference's closing dates. And see you in Milano in September!"

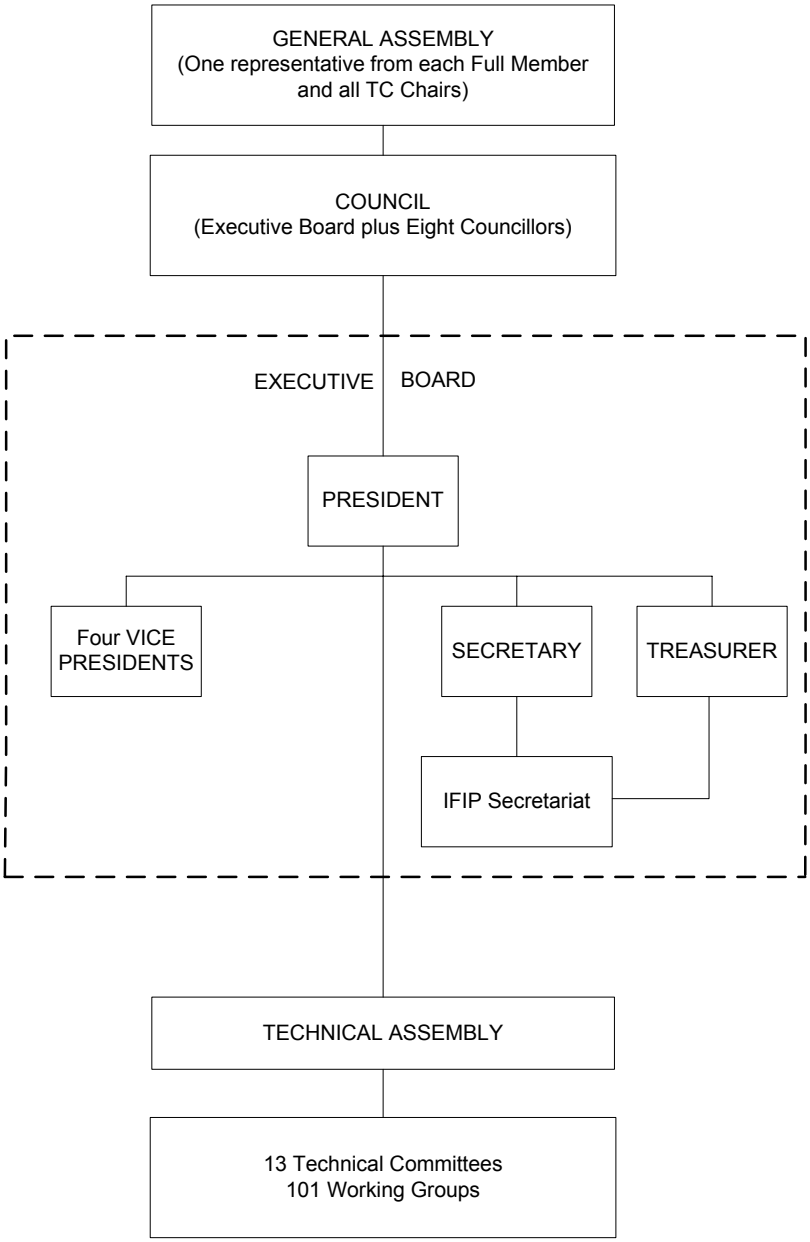
A final special is a Leonardo da Vinci Game which particpants who register before March can play and get a discount, as well as a book. See the website for details.

The Technical Conferences

BICC [WG10.2] - Biologically Inspired Cooperative Computing
DIPES [TC10] - Distributed and Parallel Embedded Systems
ECS [TC14] - 1st IFIP Entertainment Computing Symposium
ED_L2L [TC3] - Learning to live in the knowledge society
HCE3 [TC9, WG9.7, TC3] - History of Computing and Education
HCI [TC13] - Human Computer Interaction
IFIP AI [TC12] - IFIP Artificial Intelligence 2008
IFIP SEC [TC11] - 23rd International Information Security Conference IFIP
ISREP [TC8] - Advances in Information Systems Research, Education, and Practice
KMIA [WG12.6] - Knowledge Management in Action
OSS [TC2, WG2.13] - Open Source Systems 2008
TCS [TC1] - 5th IFIP International Conference on Theoretical Computer Science

Organisers: Ivo Di Lotto, Giuilio Occhini, Judith Bishop (ZA)

IFIP ORGANISATION CHART



IFIP COUNCIL

EXECUTIVE BOARD

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Raymond Morel	CH	2004/2010
Ramon Puigjaner	ES	2007/2010
Lalit Sawhney	IN	2007/2010
Albert J. Turner	US/ACM	2002/2008

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: dennis.furini@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/	Dr. Walter **GRAFENDORFER** Grillparzergasse 4 A-3002 PURKERSDORF, Austria Tel/Fax +43 2231 64127 e-mail: grafendorfer@schule.at
BELGIUM Fed. des Assoc. Informat. de Belgique FAIB-FBVI Bloesemlaan 17 BE-3360 KORBEEK-LO, Belgium Tel. +32 16 46 2841 e-mail: hubert.christiaen@telenet.be URL: http://www.bfia.be/	Prof. Dirk **DESCHOOLMEESTER** Rijksuniversiteit Gent Fac. Economie en Bedrijfskunde Hoveniersberg 24 BE-9000 GENT, Belgium Tel. +32 9 2109822 Fax +32 9 2109700 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. +55 351 3166835 Fax +55 351 3191576 e-mail: sbc@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 3316 9500 Fax +55 51 3316 7308 e-mail: reis@inf.ufrgs.br

BULGARIA
Bulgarian Academy of Sciences
1, "15th November" Street
SOFIA 1040, Bulgaria
Tel. +359 2 883 575
Fax +359 2 880 448
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

CHILE
The Chilean Computer Society
Blanco Encalada 2120
Casilla 2777
SANTIAGO, Chile
Tel. +56 2 6892 736
Fax +56 2 6895 531
e-mail: sccc@dcc.uchile.cl
URL: http://www.sccc.cl/scccing.html

Prof. Mauricio **SOLAR**
Universidad de Santiago de Chile
Departamento de Ingenieria Informatica
Av. Ecuador 3659
Codigo Postal 7251657
SANTIAGO, Chile
Tel. +56 2 776 3511
Fax. +56 2 776 5892
e-mail: msolar@usach.cl

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**
Rojlevangen 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. Markku **SÄÄKSJÄRVI**
Helsinki School of Economics
Dept. of Business Technology
P.O. Box 1210
FI-00101 HELSINKI, Finland
Tel. +358 9 431 38273
Fax +358 9 431 38700
e-mail: saaks@hse.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**
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: 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

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

MAURITIUS
ICT & Knowledge Management Association (ICTKMA)
c/o VCILT
University of Mauritius
REDUIT
Rep. of Mauritius

Prof. Alain **SENTENI**
Director VCILT
University of Mauritius
REDUIT
Rep. of Mauritius
e-mail: senteni@uom.ac.mu

NETHERLANDS
Nederlands Genootschap voor Informatica (NGI)
PO Box 548
NL-5140 AM WAALWIJK
The Netherlands
Tel. +31 416 565025
Fax +31 416 565030
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. Bruce **Mc LEAN**
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)
190 Ikorodu Road, Palmgrove
P.M.B. 4800
Surulere
LAGOS, Nigeria
Tel. +234 1 774 4600
e-mail: ncs@ncs.org.ng
URL: http://www.ncs-nig.org

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
119991 MOSCOW GSP-1, Russia
Tel. +07 095 1352489
Fax +07 095 1356159
URL: http://www.ccas.ru

Prof. Yury G. **EVTUSHENKO**
The Russian Academy of Sciences
Director of Dorodnicyn Computing Centre
Vavilov st. 40
119991 Moscow GSP-1, Russia
Tel. +07 095 1350020
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. Kwok Cheong **LEE**
Singapore Computer Society
53/53A Neil Road
SINGAPORE 088891, Singapore
Tel. +65 226 2567
Fax +65 226 2569
e-mail: kclee@ncs.com.sg

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@alpha.dcs.fmph.uniba.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 11 490 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 11 259 27 62
Fax +94 11 250 80 09
e-mail: csslsec@cssl.lk
URL: http://www.cssl.lk

Mr. Dinesh C.A. **SATTRUKALSINGHE**
President of
The Computer Society of Sri Lanka CSSL
Professional Centre
275/75 Stanley Wijesundera Mawatha
COLOMBO 7, Sri Lanka
Tel. +94 11 259 27 62
Fax +94 11 250 80 09
e-mail: csslsec@cssl.lk
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
Laupenstrasse 18a
Postfach 7923
CH-3001 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
1730 Massachusetts Ave., N.W.
WASHINGTON, DC 20036-1992, U.S.A.
Tel. +1 202 371 0101
Fax +1 202 296 2187
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

ZAMBIA
Computer Society of Zambia
Afriswitch PVT Limited
6 Lagos Road
Rhodes Park
LUSAKA, Zambia
Tel. +260 1 257 270

Mr. Milner **MAKUNI**
Afriswitch PVT Limited
6 Lagos Road
Rhodes Park
LUSAKA, Zambia
Tel. +260 1 257 270
e-mail: milnerma@yahoo.com

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:

1. To establish and maintain liaison with national and international organisations with allied interests and to foster cooperative action, collaborative research and information exchange.

2. To identify subjects and priorities for research, to stimulate theoretical work on fundamental issues and to foster fundamental research which will underpin future development.

3. To provide a forum for professionals with a view to promoting the study, collection, exchange and dissemination of ideas, information and research findings and thereby to promote the state of the art.

4. To seek and use the most effective ways of disseminating information about our work including the organisation of conferences, workshops and symposia and the timely production of relevant publications.

5. To have special regard for the needs of developing countries and to seek practicable ways of working with them.

6. To encourage communication and to promote interaction between users, practitioners and researchers.

7. To foster interdisciplinary work and, in particular, to collaborate with other Technical Committees and Working Groups.

TECHNICAL COMMITTEES AND WORKING GROUPS

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

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

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***) 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
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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
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US	Juris Hartmanis
US	David Haussler
US	Steven Homer
US	Harry Hunt
US	Oscar Ibarra
US	Neil Immerman
US	John Kieffer
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US	Ker-I Ko
US	Hing Leung
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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	Narciso Marti-Oliet	GB	Don Sannella
CA	Thomas Maibaum	ES	Fernando Orejas	GB	Vladimiro Sassone
DE	Hartmut Ehrig	FR	Michel Bidoit	IT	Andrea Corradini
DE	Rolf Hennicker	FR	Dominique Duval	IT	Ugo Montanari
DE	Hans-Jörg Kreowski	FR	Dominique Mery	JP	Kokichi Futatsugi
DE	Bernd Krieg-Brückner	GB	Reiko Heckel	NL	Bart P.F. Jacobs
DE	Till Mossakowski	GB	Alexander Kurz	PL	Andrzej Tarlecki
DE	Peter Padawitz	GB	Peter D. Mosses	US	Jose Meseguer
DE	Lutz Schroeder	GB	Dirk Pattinson	US	Dusko Pavlovic
DE	Martin Wirsing	GB	Mark Ryan	US	Grigore Rosu
DZ	Mohamed Bettaz				

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 Machines est. 1994, dissolved 2004

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
LORIA - INRIA
Campus Scientifique
615, rue du Jardin Botanique
B.P. 101
FR-54602 VILLERS-LES-NANCY
France
Tel. +33 3 8358 1705
Fax +33 3 8358 1701
e-mail: claude.kirchner@loria.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	ES	Pere Botella Lopez	NO	Arne-Jorge Berre
AU	Tharam Dillon	FI	Kai Koskimies	NZ	Elizabeth A. Kemp (SEARCC)
BG	Avram Eskenazi	FR	Jean-Francois Perrot	PL	Jerzy R. Nawrocki
CH	Bertrand Meyer	GR	George Pangalos	PT	Pedro J.V.Dias Guerreiro
CLEI	Hernan Astudillo	HU	Miklos Biro	RS	Nenad Stefanović
CN	Jun Wei	IL	Peretz Shoval	SI	Marko Bajec
CZ	Pavel Zezula	IT	Ugo De Carlini	SK	Ludovit S. Molnar
DE	Michael Goedicke	JP	Masami Hagiya	US	Joseph E. Urban (IEEE)
DE	Manfred Paul	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	Manfred Paul	NL	W.L. van der Poel
BE	Michel Sintzoff	DE	Peter Pepper	NL	S.Doaitse Swierstra
CA	Hendrik J. Boom	GB	Roland Backhouse	SE	Patrik Jansson
CA	Jules Desharnais	GB	Richard S. Bird	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	Ralf Hinze	NL	Johan Jeuring	US	Douglas R. Smith
DE	Bernhard Moellerr	NL	C.H.A. Koster	US	David S. Wile
DE	Helmut Partsch				

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
Prof. Erhard PLÖDEREDER
Universität Stuttgart
Institut für Softwaretechnologie
Universitätsstr. 38
DE-70569 STUTTGART
Germany
Tel. +49 711 7816 322
Fax +49 711 7816 380
e-mail: ploedere@informatik.uni-stuttgart.de

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

AU	John Gough
AU	B. Scholz
AT	Jens Knoop
CA	R.Nigel Horspool
CH	T. Gschwindt
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
NL	B.Watson
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

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	RU	Yurij I. Shokin	US	Brian T. Smith
ES	Javier Segura	SE	Bo Einarsson	US	W. van Snyder
FR	Francoise Chaitin-Chatelin	US	Craig Douglas	US	Ping Tak Peter Tang
GB	Brian Ford	US	Ian Gladwell	US	Mladen A. Vouk
GB	Tim Hopkins	US	William D. Gropp		

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

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

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
Universitaet Bonn
Institut fuer Informatik III
Roemerstrasse 164
53117 BONN
Germany
Tel. +49 2 28 73 4535
Fax +49 2 28 73 4382
e-mail: ralf@informatik.uni-bonn.de

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
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US	Arvind
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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	Peter Lee
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

1. the structure and organization by which components and subsystems interact to form systems, and
2. 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

1. it captures and preserves designers' intentions about system structure, thereby providing a defense against design decay as a system ages, and
2. 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

1. early analysis of critical whole-system properties and
2. 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://www.ifiptc2.org/wg-2.11.html

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	FR	Laurent Reveilliere	US	Bernd Fischer
DE	Ralf Lämmel	GB	Edwin Brady	US	Sam Kamin
DE	Joerg Striegnitz	GB	Kevin Hammond	US	Oleg Kiselyov
DK	Robert Glück	GB	Christoph Herrmann	US	Christina Lopes
DK	Peter Sestoft	GB	Paul Kelly	US	Harold Ossher
FR	Albert Cohen	GB	Oege de Moor	US	Tim Sheard
FR	Charles Consel	GB	John O'Donnell	US	Yannis Smaragdakis
FR	Anne Francoise Le Meur	IT	Eugenio Moggi	US	Walid Taha
FR	Christine Paulin-Mohring	NL	Eelco Visser	US	Todd Veldhuizen
FR	Marc Pouzet	US	Ewen Denney	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.ifiptc2.org/wg-2.12.html

Chair
Prof. Tharam DILLON
University of Technology Sydney
Faculty of Information Technology
PO Box 123
AU-BROADWAY NSW 2007
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
Dr. 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

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

Secretary
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

AU	Elisabeth Chang	IE	Joseph Feller	US	Kevin Crowston
AU	Gregory Simmons	IE	David Parnas	US	Paul A. David
AT	Stefan Koch	IT	Paolo Pumilia	US	Scott Hissam
ES	Jesús Gonzalez-Barahona	IT	Barbara Scozzi	US	Karim Lakhani
FR	Jean-Luc Hardy	NL	Rishab Aiyer Ghosh	US	Sandy Slaughter
FR	Jean-Michel Dalle	SA	Mahmoud Elish	US	Katherine Stewart
FR	Jean Pierre Laisne	SE	Bjorn Lundell	US	Tony Wasserman
GB	Martin Michlmayr	TR	Bulent Ozel	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. Jan WIBE, NO
PLU - NTNU
Nyheimsvn. 22A
NO-7058 JAKOBSLI
Norway
Tel. +47 73 916692
Mobile +47 92 606680
e-mail: jan.wibe@plu.ntnu.no

Vice-Chairs
Mr. Sindre RØSVIK, NO
Giske kommune
Rådhuset
NO-6050 VALDEROY
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

Secretary
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

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	Fernando Ramos
BE	Willy Baute	HU	Andrea Karpati	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	PL	Maciej M. Syslo	ZA	Peter Waker
GB	Mike Kendall				

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
- 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
- education of teachers

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

Chair
Drs. Pieter HOGENBIRK
Helen Parkhurst Dalton Secondary School
Bongerdstraat 1
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
e-mail: schubert@die.informatik.uni-siegen.de

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

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: gordondavies@ntlworld.com

Vice-Chair
Prof. Deepak KUMAR
Bryn Mawr College
Computer Science
247 Park Science Building
BRYN MAWR, PA 19010
USA
Tel. +1 610 526 7485
Fax +1 610 526 5086
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, rev. 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.

URL: http://www.deakin.edu.au/education/ifipwg3-3

Chair
Dr. Paul S. NICHOLSON
Deakin University
School of Scient. & Develop.
Studies in Education
Faculty of Education
221 Burwood Highway
AU-BURWOOD Victoria 3125
Australia
Tel. +61 3 9244 6922
Fax +61 3 9244 6834
e-mail: pauln@deakin.edu.au

Vice-Chair
Prof. Andrea KARPATI
Eötvös Lorand University, TTK
Faculty of Sciences
UNESCO Centre for ICT in
Education
Pazmany setany 1/a
HU-1117 BUDAPEST
Hungary
Tel. +36 1 372 2972
Fax +36 1 372 2948
e-mail: karpatian@matavnet.hu

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

WG3.4 - IT-Professional and Vocational Education in Information Technology est. 1971, revised 1983, 1989, 1995

AIMS

- To promote the acquisition and updating of appropriate IT knowledge and expertise by all whose working environment requires contact with computer-based systems.
- To consider the nature, content and method of delivery of IT in vocational education to enable students to achieve their employment expectations.
- To promote the effective use of IT as a medium for the delivery of professional and vocational education.
- To examine the activities of IT professional bodies concerning the professional development and certification of their members.

SCOPE

- The integration of IT knowledge and practice with other vocational and professional education.
- The on-going professional development of IT practitioners.
- The provision of initial and on-going IT training and education for non-IT professionals to enable them to use and contribute to the development of IT systems.
- The use of computer-based training methods in the delivery of education.

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 IT practitioners whose interests are reflected in the conference activities organised by the Working Group over recent years. These include the use of computer-mediated education, the on-going professional education of both IT and non-IT professionals, the activities of national IT professional bodies, the delivery of effective IT vocational education to post-secondary students and the integration of IT 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 in Elementary Education est. 1983, revised 1999

The working group is concerned with the role of Information and Communication Technologies (ICT) in elementary education (age range from pre-school to 13 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 ICT in education;
- study and evaluate the issues arising when ICT is used in pre-school and elementary education, and used in pre-service and in-service teacher professional development as well as for teacher educators;
- assist teachers, 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;
- promote the development of ICT materials and equipment, of recognised quality;
- promote the use of ICT to support the school integration of disabled and hospitalised 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; and
- 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.

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

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

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
Dr. Elizabeth STACEY
Deakin University
Faculty of Education
Burwood Campus
AU-BURWOOD, VIC 3125
Australia
Tel. +61 3 92446443
Fax +61 3 92446974
e-mail: estacey@deakin.edu.au

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	Martyn Wild
BG	Roumen Nikolov
BG	Iliana Nikolova
BG	Ivan Stanchev
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
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
PL	Anna Grabowska
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

AIMS

- To promote effective and efficient use of Information technology within the educational management of educational institutions, educational authorities and educational system networks, to enhance educational effectiveness and development;
- To promote the use and advancement of decision making tools 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), their possible impact on ITEM application and to recommend and forecast the development of ITEM systems;
- To investigate human, social, ethical, aspects of ITEM systems and to provide recommendations for their adequate treatment;
- To investigate security and confidentiality aspects of ITEM systems and to provide recommendations for their adequate treatment;
- 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, with special emphasis on developing countries and emerging educational systems.

SCOPE

The whole range of educational institutions from kindergarten to primary and secondary education, to universities, adult education and in-service training.

Educational authorities/systems
- 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. Ian SELWOOD
School of Education
University of Birmingham
Edgbaston
BIRMINGHAM B15 2TT
United Kingdom
Tel. +44 121 414 4851
Fax +44 121 414 4865
e-mail: i.d.selwood@bham.ac.uk

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

SIG3.8 - Lifelong Learning est. 2005

AIMS

- The Special Interest Group aims to develop effective communication among its members. This communication network which is based on group communication through telecommunications and 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 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 Special Interest 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 in knowledge intensive economies derives from innovation through knowledge creation; the main economic importance of skills workers from innovation in knowledge application. To keep up with economic demands both groups have to enhance their competence in 'learning teams'. Learning is integrated into the work, learning on the job. This constitutes Lifelong Learning from the 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. We do not want to wait for general supply, we demand it now and want it personalized. This also applies to our social learning where 'learning communities' appear, be it local communities or communities of hobby or interest, including citizenship communities (civic life).

Lifelong Learning is a *civic issue*: New opportunities for active participation is 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." [2]

Lifelong Learning is a *cultural issue*: We have moved to a 'zap' culture with television, local satellite and webTV, that now is amplified by Information and Communication Technology. 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.

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 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 at the work place where its use is integrated, Information and Communication Technology will play an important enabling role. And ICT is able to play this role because also its integration in our social and cultural life is just a matter of time. It can furthermore be noted that: "ICT is a major component in merging personal, private, leisure and work time".

Lifelong Learning takes place in the real world, that means 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:

- Professional context;
- Local/dispersed community context;
- Individual context.

Chair
Mr. Brian SAMWAYS
36 William Close
Banbury
OXFORDSHIRE OX16 0UE
United Kingdom
Tel. +44 7850 740747(mobile)
Fax +44 1295 250151
e-mail: bsamways@bcs.org.uk

Vice-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 Barrie Thompson
IT Rosa Maria Bottino
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
Tél. +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, rev. 2004

AIMS

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

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

SCOPES

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

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

Enterprise integration to facilitate product realization.

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

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

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

WG5.2 - Computer Aided Design est. 1972, rev. 1986, dissolved 2006

WG5.3 – Computer Aided Manufacturing est. 1972, rev. 1985, 1986, dissolved 2006

WG5.4 - Computer Aided Innovation est. 2005

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.

Chair
Prof. Dr. Noel LEÓN-ROVIRA
ITESM
Campus Monterrey
Ave. Eugenio Garza Sada
#2501 Sur
MX-CP64849 MONTERREY, NL
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
Universita'degli Studi di Firenze
Dipartimento di Meccanica e
Tecnologie Industriali
v.S. Marta 3
IT-50139 FIRENZE
Italy
Tel: +39 55 479 6395/514
Fax +39 55 479 6400
e-mail: gaetano.cascini@unifi.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

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

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

WG5.6 - Maritime Industries est. 1974

AIMS

To promote and encourage the advancement of computer and computer-related applications in the fields of research, development, design, construction and operation of shipping companies, shipyards, ships, oil drilling platforms, fisheries, and other maritime plants and industries.

SCOPE

- methods of automation of the operations of shipping companies and shipyards, of ocean-going vessels and smaller craft, of fisheries, and of other maritime industries and installations, topics in the use of the associated computers, signal gathering equipment, data presentation devices, and associated equipment and techniques;
- study and development of general and special programming languages and other programming aids necessary for the work of item 1 above;
- study of requirements for and methods of enhancement of the overall reliability and operability of the computers and other equipment involved in these automation programs.

The Working Group will be responsible for IFIP's work in organizing the Series of conferences on

- Ship Operation Automation currently being conducted in cooperation with IFAC;
- Computer Applications in the Automation of Shipyard Operation and Ship Design currently being conducted in cooperation with IFAC;
- Automation in Off-Shore Oil Field Operation currently being conducted in cooperation with IFAC.

Chair

Dr. Kaj JOHANSSON
Kockums Comp. Systems AB
P.O. Box 50555
St. Varvsgatan 1
S-202 15 MALMO
Sweden
Tel.:+46 40 103455
Fax +46 40 978415
e-mail: kaj.johansson@kcs.se

DE	Joachim Brodda	JP	Takeo Koyama

WG5.7 - Integration in Production Management est. 1978, revised 1986, 1989, 2000

AIMS

To promote and encourage the advancement of the field of computer systems for the production management of manufacturing, offshore, construction, electronic and similar and related industries.

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.

Chair
Prof. Umit S. BITITCI
University of Strathclyde
Centre for Strategic Manufacturing, DMEM
James Weir Building
75 Montrose Street
GLASGOW G1 1XJ
United Kingdom
Tel. +44 141 548 2015
Fax +44 141 552 0557
e-mail: u.s.bititci@strath.ac.uk

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

Secretary
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

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

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
University of Melbourne
Dept. of Civil and Environmental Engineering
Parkville
AU-VICTORIA 3010
Australia
Tel: +61 3 83447115
Fax +61 3 83446215
e-mail: R.Argent@unimelb.edu.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	Hubert Hasenauer
AT	Gerald Schimak
AT	Werner Pillmann
AU	John Norton
AU	Simon Veitch
AU	William Young
CA	William Booty
CA	Ken Brown
CA	Daryl H. Hepting
CA	David Lam
CA	Ann McMillan
CA	Douglas W. Mulholland
CZ	Jiri Hradec
CZ	Jiri Hrebicek
CZ	Jaroslav Racek
CZ	David Strnad
DE	Ralf Denzer
DE	Ernst E. Doberkat
DE	Peter Fischer
DE	R. Guettler
DE	Wolfgang Kuntz
DE	Roman Lenz
DE	Ralph Pfannkuche
DE	Thomas Usländer
ES	Anne-Marie Sassen
GB	William Walley
GR	Kostas Karatzas
IN	Harjit Singh
IT	Alessandro Annoni
IT	Giorgio Guariso
IT	Michel Millot
IT	Rodolfo Soncini-Sessa
NZ	Martin Purvis
SE	Raul Carlsson
US	James Alpigini
US	Than Ha Dang
US	Adrienn Graze Gonzalo
US	Colin I. Mayfield
US	Nigel Quinn
US	David Russell
US	Petr Votava
ZA	Gavin Fleming
ZA	J. Dewald Roode

WG5.12 - Architectures for Enterprise Integration est.1995

AIMS

To foster research into enterprise integration, and in particular enterprise reference architectures, enterprise engineering methodologies, enterprise modelling, and generic enterprise models.

To indentify theoretically sound and practically viable techniques for the process of change toward the integrated enterprise. The multi-disciplinary perspective of WG5.12 is expressed in the strategy to develop liaisons and to co-sponsor activities with other relevant Working Group and Technical Committees of IFIP, and other organizations, conducting research and development in enterprise integration technology.

SCOPE

- Continue the evaluation of enterprise reference architecture proposals as they become available, and solicit additional proposals (life-cycle architectures, methodologies).
- Expand the work with information systems physical and functional description architectures (integration infrastructure architectures), as well as program architectures for complete enterprise life-cycle development and management.
- Work to develop specifications and/or recommended manifestations for each class above. This specification would include, for each phase of the enterprise life-cycle - development, (re)design, implementation / migration, and operation
  - the requisite
  - Architectural framework,
  - Enterprise modelling tools and languages (language specifications, ontological theories, computer-aided enterprise engineering tools)
  - Methodology for use (enterprise engineering methodology)
  - Generic building blocks and models (intra- and inter-enterprise integration, agent based integration, information infrastructure, organisational models, self-similar structures, reusable industry-specific models)

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: bernus@cit.gu.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	ES	Angel Ortiz	NO	Ziqiong Deng
AT	Norbert Rozsenich	FR	Vincent Chapurlat	PT	João José Pinto Ferreira
AU	Laszlo Nemes	FR	David Chen	RO	Mihai Avram
AU	Ljibisa Vlacic	FR	Guy Doumeingts	RO	Florin Filip
CA	Fadi G. Fadel	FR	Joel Favrel	SG	Cheng Leong Ang
CA	Mark Fox	FR	Francois Vernadat	SG	Sam Bansal
CA	John Mylopoulos	GB	John Edwards	SI	Brane Kalpic
CA	Ajit Pardasani	GB	S.K. Banerjee	US	James Brosvic
CN	Yuliu Chen	GB	David Shorter	US	Christoph J. Bussler
CN	Zengjin Han	HU	Geza Haidegger	US	Michael Gruninger
DE	Kurt Kosanke	HU	György L. Kovacs	US	Bruce Guthridge
DE	Matthias Jarke	IE	Jim Browne	US	Hong Li
DE	Roland Jochem	IT	Marco Garetti	US	Jim Nell
DE	Gunter Schmidt	JP	Yoshiro Fukuda	US	James Nevins
DK	H. J. Molstand	JP	Atsushi Inamoto	US	Leo Obrst
DK	Johan Vesterager	JP	Yusaku ShibataArturo Molina	US	Jakob Vlietstra
ES	Luis Basanez	MX	Gutierrez	US	Theodore J. Williams

SIG Bioinformatics est. 2004 dissolved 2007

SIG Enterprise Interoperability est. 2006

AIMS

Generally speaking, this research aims at developing knowledge and solutions that allow establishing interoperability within and across enterprises. Interoperability is defined as “the ability of two or more systems or components to exchange information and to use the information that has been exchanged (IEEE Standard Computer Dictionary). More specifically in the context of enterprise, interoperability refers to the ability of interactions (exchange of information and services) between enterprise systems. Interoperability is considered

as significant if the interactions can take place at least at the three levels: data, services and process, with a semantics defined in a given business context (IDEAS, 2002)*.

The overall objective of this research is to enable enterprise (networked enterprise, extended enterprise,…) to interoperate seamlessly with each other. More precisely this research aims:

- To support enterprises with knowledge and solutions enabling reengineering the enterprise systems towards interoperability
- To foster research in the domain of enterprise interoperability, and to capture, evaluate and structure knowledge in this domain as they become available:
- To elaborate and integrate knowledge in Enterprise Modeling, Ontology and Architecture & Platform domains for enterprise interoperability:
- To develop solutions (methodology, enabling tools and infrastructures) for enterprise interoperability through various approaches (Integrated, Unified and Federated)

SCOPE

Three main research themes or domains that address interoperability issues were identified, namely: (1) Enterprise modeling (EM) dealing with the representation of the inter-networked organization to establish interoperability requirements; (2) Architecture & Platform (A&P) defining the implementation solution to achieve interoperability; (3) Ontologies (ON) addressing the semantics necessary to assure interoperability.

- Cover both intra and inter enterprise environments including both manufacturing and service enterprises. It concerns both large organizations but also SMEs;
- Define requirements on enterprise interoperability and regularly perform the State-of-the-art in this domain to identify gaps between requirements and current situation;
- Elaborate and maintain the roadmap for future research and development on enterprise interoperability according to the gaps analysis;
- Tackle interoperability problems at all levels of enterprise (for example, data, service, process and business) and solutions to remove the barriers;
- Identify barriers to interoperability of various kinds: Conceptual (including syntactic and semantic), Technological and Organizational;
- Develop both ‘a priori interoperability’ (build interoperability as desired property at the design stage) and ‘a posteriori interoperability’ (establish interoperability between existing systems);
- Elaborate metrics to characterize and evaluate the degree of interoperability.

Chair
Prof. Dr. Guy DOUMEINGTS
University Bordeaux 1
Director, Adelior Group
62bis Avenue Andre Morizet
FR-92100 BOULOGNE-BILLANCOURT
France
Tel. +33 14 603 6058
Fax +33 14 131 6655
e-mail: guy.doumeingts@laps.u-bordeaux1fr

Vice-Chair
Prof. Dr. Bruno VALLESPIR
University Bordeaux 1
Director, Adelior Group
62bis Avenue André Morizet
FR-92100 BOULOGNE-BILLANCOURT
France
e-mail: bruno.vallespir@laps.u-bordeaux1fr

Secretary
Prof. Dr. David CHEN
University Bordeaux 1
Director, Adelior Group
62bis Avenue André Morizet
FR-92100 BOULOGNE-BILLANCOURT
France
e-mail: david.chen@laps.u-bordeaux1fr

AT	George Weichhart	DE	Kurt Kosanke	GR	Sakis Psonis
BE	Patrick Heymans	DE	Kai Mertins	NL	Marten Van Sinderen
BE	Robert Meersman	DE	Sven Rehm	NO	Andreas Opdahl
BE	Pierre-Yves Schobbens	ES	Ricardo Chalmeta	PT	Ricardo Concalves
CN	Xiaofei Xu	ES	Raul Poler	RU	Leonid Kalinichenko
DE	Thomas Fischer	GB	Fan IP-Shing	SE	Ruth Sommar
DE	Roland Jochem	GR	Ioannis Kotsiopoulos	US	Isabel Cruz

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
AR	Javier Diaz
AT	Guenter Haring
BE	Andre Danthine*
BG	Kiril Boyanov
BR	Jose Neuman de Souza
CA	Raouf Boutaba
CA	Lorne G. Mason
CH	Harry Rudin
CL	Jose Piquer
CLEI	Benjamin Barán
CZ	Jan Slavik
DE	Otto Spaniol
DK	Villy Baek Iversen
FI	Olli Martikainen
FR	Louis Pouzin*
FR	Samir Tohme
HU	Sarolta Dibuz
HU	Tibor Szentivanyi*
IN	S.V. Raghavan
JP	Tadao Saito
MY	Norsheila Bt Faisal (Obs.)
NL	Ignatius G.M.M. Niemegeers
NO	Finn Arve Aagesen
OM	Ahmed Al-Naamany
PL	Adam Grzech
PT	Augusto Casaca
RS	Ljiljana Ilić
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
Université Bordeaux 1
Inst. de Mathématiques MAB
INRIA Futurs - Bordeaux
351, cours de la libération
FR-33405 TALENCE Cedex
France
Tel. +33 5 4000 3448
Fax +33 5 4000 2626
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	Josef Stoer*	NL	Adrie J.M. Beulens
AT	Alfred Kalliauer	DK	Alain Larsen	PL	Kazimierz Malanowski*
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	Janez Grad
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)

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:

1. Modelling and Identification Methodology;
2. Simulation Methodology;
3. Computer Simulation Languages;
4. Interactive On-Line Computation;
5. 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
PO 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
F-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. Friedrich TROELTZSCH
Technische Universitaet Berlin
Inst. f. Mathematik
Sekr. MA 4-5
Strasse d. 17. Juni 135
D-10623 BERLIN, Germany
Tel. +49 30 314 79688
Fax +49 30 314 79706
e-mail: troeltz@math.tu-berlin.de

Secretary
Prof. John CAGNOL
University Leonard de Vinci
ESILV, DER CS
F-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	Luis Fernandez	PL	Ngoc Tanh Nguyen
AT	Walter Ring	FR	Maitine Bergounioux	RO	Dan Tiba
CA	M.C. Delfour	FR	Pierre Dubois	RU	R. Curtain
CN	Jiongmin Yong	FR	Jaques Henry	RU	A. Kurzhanski
DE	Michael Hinze	FR	Jean-Pierre Raymond	RU	Slava Maksimov
DE	K. Hoffman	FR	J. Simon	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
ES	Jesus Diaz				

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. Don TOWSLEY
Univ. of Massachussets
Dept. of Computer Science
AMHERST, MA 01003
U.S.A
Tel. +1 413 5450207
Fax +1 413 545 1249
e-mail: towsley@cs.umass.edu

Vice-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

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

AT	Günter Haring	IL	Uri Yechiali	US	Mor Harchol-Balter
BE	Pierre-Jacques Courtois	IN	Anurag Kumar	US	Philip Heidelberger
BE	Guy Latouche	IT	Marco Ajmone Marsan	US	Micha Hofri
CA	Derek L. Eager	IT	Gianfranco Balbo	US	Hisashi Kobayashi
CA	Johnny W. Wong	IT	Maria Carla Calzarossa	US	Yaakov Kogan
CA	Murray Woodside	IT	Lorenzo Donatiello	US	Alan G. Konheim

CH	Werner Bux
CH	Jean-Yves Le Boudec
CN	C.S. Chang
DE	Heinz Beilner
DE	Ulrich Herzog
DE	Paul J. Kühn
DE	Christoph Lindemann
DE	Martin Reiser
DE	Rolf Schassberger
DE	Otto Spaniol
DE	Phuoc Tran-Gia
FR	Eitan Altman
FR	Francois Baccelli
FR	Thomas Bonald
FR	Guy Fayolle
FR	Jean-Michel Fourneau
FR	Alain Jean-Marie
FR	Raymond Marie
FR	Brigitte Plateau
FR	Guy Pujolle
FR	Philippe Robert
FR	Gerardo Rubino
GB	Erol Gelenbe
GB	Peter G. Harrison
GB	Frank P. Kelly
GB	Peter Key
GB	Isi Mitrani
HK	John C.S. Lui
HU	M. Arato
IT	Giuseppe Iazeolla
IT	Giuseppe Serazzi
JP	Hidetsune Kobayashi
JP	Hiroshi Saito
JP	Hideaki Takagi
JP	Yutaka Takahashi
NL	Sem C. Borst
NL	Onno J. Boxma
NL	Nicolaas M. van Dijk
NL	Boudewijn R. Haverkort
NL	Michel Mandjes
NL	Rudesindo Nunez-Queija
RU	Leonid B. Boguslavsky
US	Ashok Agrawala
US	Ian F. Akyildiz
US	Jonathan F. Bard
US	Jeff P. Buzen
US	E.G. Coffman
US	Peter J. Denning
US	Bharat T. Doshi
US	Lawrence W. Dowdy
US	Nick Duffield
US	Anwar El Walid
US	Domenico Ferrari
US	H. Richard Gail
US	Don Gaver
US	Robert Geist
US	Leana Golubchik
US	Albert G. Greenberg
US	Steven S. Lavenberg
US	Edward D. Lazowska
US	Zhen Liu
US	Benjamin Melamed
US	Daniel A. Menasce
US	Vishal Misra
US	Debasis Mitra
US	Richard Muntz
US	Randolph Nelson
US	David M. Nicol
US	Raif Onvural
US	Teunis J. Ott
US	Harry G. Perros
US	Vaidyanathan Ramaswami
US	Marty I. Reiman
US	Dan Rubenstein
US	Iraj Saniee
US	Alan J. Smith
US	Mark S. Squillante
US	William J. Stewart
US	Asser N. Tantawi
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

Prof. Peter L. HAMMER
RUTCOR Discrete Optimization
Rutgers State Univ.
640 Bartholomew Road
PISCATAWAY, NJ 08854-8003, U.S.A.
Tel. +1 732 455 3804
Fax:+1 732 445 5472
e-mail: hammer@rutcor.rutgers.edu

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
CH	Dominique de Werra
DE	Bernhard Fleischmann
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
IT	Giovanni Rinaldi
IT	Antonio Sassano
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
US	Fred W. Glover
US	Jonathan Lee

DE	Horst W. Hamacher	IT	Bruno Simeone	US	Joseph Mazzola
DE	Rolf H. Möhring	IT	Paolo Toth	US	Roy Marsten
DE	Uwe Zimmermann	IT	Carlo Vercellis	US	Clyde Monma
DK	Jens Clausen	JP	Satoru Fujishige	US	George L. Nemhauser
DK	Jorgen Tind	JP	Toshihide Ibaraki	US	Manfred W. Padberg
DK	Pawel Winter	JP	Naoki Katoh	US	Andras Prekopa
ES	Elena Fernandez Areizaga	JP	Kazuo Murota	US	Linus E. Schrage
FR	Gerd Finke	NL	Ulrich Faigle	US	Gyorgy Turan
FR	Michel Minoux	NL	Marc Salomon	US	Vladimir Vapnik
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
CH	Michael H. Faber	IT	M. Gioffre	US	Alfredo H. Ang
DE	Christian Bucher	JP	M. Dogaki	US	C.Allin Cornell
DE	Kurt Marti	JP	Hitoshi Furuta	US	Ross Corotis
DE	Rüdiger Rackwitz	JP	H. Ishikawa	US	Dan Frangopol
DK	O Ditlevsen	JP	Chul-Woo Kim	US	Armen Der Kiureghian
DK	John Dalsgaard Sorensen	JP	Nozumo Kogiso	US	H. Ellis
DK	Niels Jacob Tarp-Johansen	JP	Y. Murotsu	US	Gongkang Fu
DK	Palle Thoft-Christensen	JP	Tadanobu Sato	US	Philippe Geyskens
ES	Juan Ramon	JP	M. Sakano	US	Mircea D. Grigoriu
FR	Casas Rius	JP	Watura Shiraki	US	Andy S. Nowak
FR	M. Lemaire	JP	Yan-Gang Zhao	US	Johannes O. Royset
GB	Bruno Sudret	KR	H. N. Cho	US	Maria Szerszen
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

1. Policy and Management (Application Focus)
2. Optimization, Multi-Criteria Decision Analysis and Simulation (Methodological Focus)
3. Design, Planning and Scheduling (Problem Type Focus)
4. 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	DE	S. Voss	LT	A. Zilinskas
BE	H. Artiba	DE	Wolfgang S. Wittig	NL	Adrie J.M. Beulens
CA	Theodor Gabriel Crainic	FR	Y. Hamam	PL	M. Makowski
CA	D. Ionescu	IN	K.V. Ramani	PL	C. Orlowski
DE	Manfred Grauer	JP	M. Gen	PL	Toczylowski
DE	T. Gruenert	JP	Yoshiteru Nakamori	PL	Andrzej Wierzbicki
DE	Herbert Kopfer	JP	Milan Vlach	US	Alexander Bordetsky
DE	Hans Jürgen Sebastian	LB	Khalil S.Hindi	US	T. Bui
DE	Helena Szczerbicka	LB	M. Salameh		

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
D-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
RU	Vadim Iosifovich Arkin
RU	I.V. Evstigneev
US	John R. Birge
US	Julia L. Higle
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://bateria.dsi.uminho.pt/IFIPTC8/

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
The IT University of Copenhagen
Design and Use of IT (DUIT)
Rued Langgaards vej 7
DK-2300 COPENHAGEN S
Denmark
Tel. +45 7218 5000
e-mail: jph@itu.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

AR	Horacio P. Leone	FI	Juhani Iivari	NZ	Michael D. Myers
AT	A Min Tjoa	FR	David Avison	PL	Janusz Kacprzyk
AU	Steve Elliot	GB	T.William Olle	PT	Joao Alvaro Carvalho
BE	Dirk Deschoolmeester	GR	Manolis Giakoumakis	RS	Dragan Simić
BG	Krassen Stefanov	HU	Maria Raffai	SE	Mats Lundeberg
CH	Yves Pigneur	IE	Michael Sherwood-Smith	SG	Juzar Motiwalla
CN	Ji Wang	IL	Michael Z. Hanani	SI	Marjan Krisper
CZ	Josef Basl	IN	Ashok Agarwal	SK	Anton Scheber
DE	Theo Haerder	JP	Tetsuya Uchiki	US	Erich Neuhold (IEEE)
DK	Jan Pries-Heje	NL	Erik Proper	ZA	J. Dewald Roode
ES	Maria-Ribera Sancho	NO	John Krogstie		

ex-officio members: WG Chairs

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
CA	El-Sayed Abou-Zeid
CA	Jeffrey Parsons
CA	Matti Rossi
CA	Yair Wand
CH	Michel Léonard
CH	Yves Pigneur
CN	Chen Yu
DE	Wolfgang Hesse
ES	Antoni Olive
ES	Oscar Pastor
FI	Juhani Iivari
FI	Hannu Kangassalo
FI	Stephen Kelly
FI	Mauri Leppänen
FR	David Avison
FR	Isabelle Mirbel
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GB	Anthony Finkelstein
GB	Peter Kawalek
GB	Kecheng Liu
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GB	T. William Olle
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GB	Alistair G. Sutcliffe
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IL	Peretz Shoval
IN	Naveen Prakash
IT	Giuseppe Berio
IT	Giampio Bracchi
IT	Michel Missikoff
JP	Motoshi Saeki
NL	Antonia Albani
NL	Sjaak Brinkkemper
NL	Peter Bollen
NL	Aldo De Moor
NL	Jan L. G. Dietz
NL	Jan Gossenaerts
NL	S.J.B.A. (Stijn) Hoppenbrouwers
NL	Erik Proper
NL	Guus J. Ramackers
NL	Henk G. Sol
NL	Gerard Wijers
NO	Andreas L. Opdahl
NO	Guttorm Sindre
NO	Arne Sølvberg
NZ	John Grundy
SE	Janis Bubenko
SE	Remigijus Gustas
SW	Fredrik Karlsson
SE	Eva Lindencrona-Ohlin
SE	Mats Lundeberg
SE	Anne Persson
SE	Kurt Sandkuhl
SE	Janis Stirna
SE	Benkt Wangler
US	Akhilesh Bajaj
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
Prof. Michael D. MYERS
University of Auckland
Dept. of Mgmt. Sc. & Inf. Syst.
Private Bag 92019
AUCKLAND, New Zealand
Tel. +649 3737599 ext.87468
Fax +649 3737430
e-mail:
m.myers@auckland.ac.nz

Vice-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

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

AU	John Campbell	GB	Michael Newman	US	Pratyush Bharati
AU	Dubravka Cecez-Kecmanovic	GB	Faith Noble	US	Richard Boland
AU	Lynda Davies	GB	Briony Oates	US	Bruce E. Breeding
AU	Donald Falconer	GB	Niki Panteli	US	Michelle Brown
AU	Walter D. Fernandez	GB	Natasha Papazafeiropoulou	US	Bongsug Chae
AU	Bernhard C. Glasson	GB	Philip Powell	US	Alex Citurs
AU	Liisa von Hellens	GB	Vicky Russell	US	Sue Conger
AU	Nimal Jayaratne	GB	Kostas Samiotis	US	Randy Cooper
AU	Ernest Jordan	GB	Chris Sauer	US	Kevin Crowston
AU	Heejin Lee	GB	Chris Smart	US	Elizabeth J. Davidson
AU	Nancy Olson	GB	Steve Smithson	US	Gordon B. Davis
AU	Rens Scheepers	GB	Carsten Sorensen	US	Uri Gal
AU	Jim Underwood	GB	Bernd Stahl	US	Janice I. De Gross
AU	John R. Venable	GB	Will Venters	US	Gurpreet Dhillon
BE	Dirk Deschoolmeester	GB	Richard Vidgen	US	Michael J. Gallivan
BR	Eduardo Morgado	GB	Geoff Walsham	US	Susan Gasson
CA	Wendy Cukier	GB	Edgar Whitley	US	Matt Germonprez
CA	Catherine Middleton	GB	David Wilson	US	Robert Geter
CA	Alain Pinsonneault	GB	Melanie Wilson	US	Sean Hansen
CH	Tsai-hsin Chu	GB	J.R.G. Wood	US	Noriko Hara
DE	Helmut Krcmar	GB	Trevor Wood-Harper	US	Amir Hartman
DK	Ivan Aaen	GB	Yingquin Zheng	US	Rosie Hauck
DK	Jan Damsgaard	GR	Nancy Pouloudi	US	Rudolf A. Hirschheim
DK	Galina Hansen	GR	Angeliki Poulymenakou	US	Marius Janson

DK	Jesper Holck
DK	Karlheinz Kautz
DK	Pernille Krammergaard Jensen
DK	Peter Axel Nielsen
DK	Jacob Norbjerg
DK	Mogens Kuhn Pedersen
DK	Jan Pries-Heje
DK	Jeremy Rose
DK	Jan Stage
EE	Mart Roost
ES	José Esteves
ES	Sandra Sieber
FI	Inger Eriksson
FI	Ari Heiskanen
FI	Juhani Iivari
FI	Timo Kakola
FI	Kalle Kangas
FI	Helena Karsten
FI	Mikko Korpela
FI	Anja Mursu
FI	Markku Sääksjärvi
FR	David Avison
FR	Andrea Carugati
FR	Emmanuel Monod
FR	Frantz Rowe
GB	Alison Adam
GB	Carl Adams
GB	David K. Allen
GB	Chris Atkinson
GB	Laurence Brooks
GB	Ann P. Brown
GB	Mike Chiasson
GB	Antonio Cordella
GB	Tony Cornford
GB	Mike Cushman
GB	Elizabeth Davenport
GB	Barbara Farbey
GB	Guy Fitzgerald
GB	Anita Greenhill
GB	Christopher Hemingway
GB	Ian Hosein
GB	Debra Howcroft
GB	Lucas D. Introna
GB	Matthew Jones
GB	Ela Klecun
GB	Frank F. Land
GB	Ben Light
GB	Stephen E. Little
GB	Hideyaki Matsumoto
GB	Kathy McGrath
GB	Tom McMaster
GB	Joe Nandhakumar
HK	Robert Davison
IE	Pamela Abbott
IE	Par Agerfalk
IE	Joseph Feller
IE	Séamas Kelly
IE	Gamel Wiredu
IT	Chiara Frigerio
IT	Federico Rajola
MO	Kranti Toraskar
MO	Frank Xia
NL	Jos Aarts
NL	Walter Baets
NL	Ellen Christiaanse
NL	Kuldeep Kumar
NL	Rob Kusters
NL	Paul Mantelaers
NL	Hans Juergen Oppelland
NL	Philip S. Seligmann
NL	Heico van der Blonk
NO	Margunn Aanestad
NO	Kristin Braa
NO	Ole Hanseth
NO	Edoardo Jacucci
NO	Jens Kaasboll
NO	Trond Knudsen
NO	Tor Larsen
NO	Knut Rolland
NO	Elisabeth Rossen
NZ	Bill Doolin
NZ	Tuure Tuunanen
NZ	Cathy Urquhart
PT	Isabel Ramos
SE	Magnus Andersson
SE	Olov Forsgren
SE	Ola Henfridsson
SE	Helena Holmstrom
SE	Rikard Lindgren
SE	Jan Ljungberg
SE	Bjorn Lundell
SE	Magnus Mähring
SE	Agneta Nilsson
SE	Hans-Erik Nissen
SE	Annakarin Nyberg
SE	Carl Magnus Olsson
SG	Shan Pan
SG	Chee Sing Yap
SI	Joze Gricar
US	Jonathan Allen
US	Anthony Ammeter
US	Hala Annabi
US	Richard Baskerville
US	Muhammadou Kah
US	Kate M. Kaiser
US	Bonnie Kaplan
US	Leon Kappelman
US	Julie E. Kendall
US	Kenneth E. Kendall
US	Rajiv Kishore
US	Heinz K. Klein
US	Lynette Kvasny
US	Roberta Lamb
US	Allen S. Lee
US	Linda Levine
US	Kalle Lyytinen
US	Marshall Major
US	Lynne Markus
US	Lars Mathiassen
US	Ephraim McLean
US	Ramiro Montealegre
US	Lisa Murphy
US	William Nance
US	Ojelanki Ngwenyama
US	Wanda Orlikowski
US	Carsten S. Osterlund
US	Ken Peffers
US	Brian T. Pentland
US	Daniel J. Power
US	Daniel Radell
US	Neil Ramiller
US	Julie Rennecker
US	Jeanne W. Ross
US	Steve Sawyer
US	Roy Schmidt
US	Ulrike Schultze
US	Valerie Spitler
US	Erik Stolterman
US	David Sutherland
US	E. Burton Swanson
US	Eileen M. Trauth
US	Duane P. Truex
US	N.S. Umanath
US	Chelley Vician
US	Olga Volkoff
US	Erica Wagner
US	Richard J. Welke
US	Susan Winter
US	Judy Wynekoop
US	Eleanor W. Wynn
US	Youngjin Yoo
US	Robert W. Zmud
ZA	Brian O'Donovan
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
AU	Cyril H. P. Brookes
AU	Dubravka Cecéz-Kecmanovic
AU	Leonid Churilov
AU	Linda Dawson
AU	John Debenham
AU	Andrew Flitman
AU	Gartshore Dale
AU	Marcus Gibson
AU	Bernard C. Glasson
AU	Meliha Handzic
AU	Hasan Helen
AU	Gregory Hill
AU	Ilona Jagielska
AU	Phil Joyce
AU	Jie Lu
AU	Mia Lokman
AU	Rob Meredith
AU	Peter O'Donnell
AU	Grahan Pervan
AU	Dobrila Petrovic
AU	Graeme Shanks
AU	Suzanne Zyngier
CA	Bouchaib Bahli
CA	Sylvain Delisle
CA	Yi Komiak
CA	Edmond Miresco
FR	Pascale Zarate
GB	Dina Berkeley
GB	Athena Chatjoulis
GB	Wendy Currie
GB	Catherine Anne Davies
GB	Alejandra Duenas
GB	John Edwards
GB	Lucia Garcia
GB	Martin Geiger
GB	Viviane Goldenberg
GB	Garrick Jones
GB	Vicky Katsioloudes
GB	Crispin Lyden-Cowan
GB	Carol Lorac
GB	Sumedha Makewita
GB	Bill Mayon-White
GB	Andrew McCosh
GB	Melissa Nolas
GB	Sanja Petrovic
GB	Freddie Quek
GB	Paul Reynier
GB	Steve Russ
GB	M. Simosi
GB	Alexandra Steinberg
GB	Despina Tsalavoutis
GB	Graham Winch
GB	Jian-Bo Yang
GR	Kozell Williams
HK	Vincent Lai
HK	Efraim Turban
HU	Norbert Becser
HU	Csaba Csaki
HU	József Csicsman
HU	Viktor Dörfler
NO	Bjorn Erik Munkvold
NO	Bjørn Tvedte
NZ	Steven Eades
NZ	Carmel Joe
NZ	Pak Yoong
PL	Henryk Sroka
PL	Stanislaw Stanek
PT	Joao Climaco
PT	Helder Coelho
PT	Ana Luisa Respicio
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	Vlado Rajkovic
SI	Martin Znidarzic
US	Deepinder Bajwa
US	Basu Amit
US	Alfs T. Berztiss
US	Tung Bui
US	Peter Duchessi

CH	Giovanni Camponovo
CH	Alexandre Gachet
CH	Pius Haettenschwiler
CH	Clemens Herrman
CH	Robert Winter
CL	Osvaldo Garcia
CL	Renato Orellana
CL	Jose A. Pino
DE	Holger Eckstein
DE	Frank Kohne
DE	Florian Lang
DE	Claudia Loebbecke
DE	Peter Mertens
EG	Hoda Abdel Hafez
EG	Sherif Kamel
ES	Felipe Aixala
ES	Sebastian Ayestaran
FI	Christer Carlsson
FI	Timo Lainema
FI	Par Landor
FI	Kyosti Pulkkinen
Fi	Anna Sell
FR	Patrick Brezillon
FR	Stefania Castellani
FR	Sebastian Damart
FR	Michel Klein
FR	Alexandre Pachulski
FR	Jean-Charles Pomerol
FR	Camille Rosenthal-Sabroux
FR	Frantz Rowe
FR	Cecilia Zanni
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
IE	David Sammon
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
KT	Khalid Al-reshaid
MX	Manuel Mora
NG	Nosa Isere
NL	Aydin Mehmet
NL	Nick Draper
NL	Henk Gazendam
NL	Gerard de Zeeuw
NL	Ronald M. Lee
NL	Henk G. Sol
NO	Leif Birger Methlie
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	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

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

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

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	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
DE	Paula Swatman
DK	Kim V. Andersen
DK	Stefano Perlusz
ES	Jorge Davila Muro
ES	Francisco J. Lopez Munoz
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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: https://www.uni-koblenz.de/FB4/Institutes/IWVI/AGVInf/community/wg85

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

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

Secretary
Dr. Tom McMASTER
University of Salford
Information Systems Institute
SALFORD M54WT
United Kingdom
Tel. +44 161 295 4946
Fax +44 161 745 8169
e-mail: t.mcmaster@salford.ac.uk

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

AU	Bernard C. Glasson	FI	Pasi Kuvaja	US	Ritu Agarwal
AU	Steve Elliot	FI	Kari Leppala	US	Mario R. Barbacci
CA	Gitte Lindgaard	GB	Carole Brooke	US	Richard Baskerville
DK	Jan Damsgaard	GB	Stephen E. Little	US	Barbara Bowers
DK	Peter Axel Nielsen	GB	Chris Sauer	US	Susan A. Brown
DK	Jan Pries-Heje	GB	Richard Veryard	US	Lisa Brownsword
DK	Carsten Sorensen	GB	Richard Vidgen	US	Priscilla Fowler
DK	Helle Zinner Henriksen	GB	David Wastell	US	Lawrence Lien
DK	Karlheinz Kautz	NO	Kristin Braa	US	V. Sambamurthy
ES	Gonzalo Serrano Leon	SE	Bjorn Johansson	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
AU	Mark Looi
AU	Tony Watson
CH	Michael Waidner
DE	Dieter Gollmann
DE	Bernd Meyer
DE	Joachim Posegga
ES	Josep Rifa Coma
FR	Yves Deswarte
FR	Didier Donsez
FR	Gilles Grimaud
FR	Sebastien Jean
FR	Sylvain Lecomte
GB	Konstantinos Markantonakis
GB	Braden Phillips
HU	Zoli Kincses
JP	Tatsuaki Okamoto
NL	Pieter H. Hartel
NL	Ray Hirschfeld
US	Peter Honeyman
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
Dr. 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

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

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

BR	Rogerio Atem de Carvalho
CA	Huaizu Li
CA	Chris Zhang
CN	Yushun Fan
CN	Hongxun Jiang
CN	Lu 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
DK	Charles Möller
GB	Shangming Zhou
IR	Seyyed Mohsen Hashemi
SG	Bee Hua Goh
US	Anurag Agarwal
US	Elias Awad
US	Sohail Chaudhry
US	James Jones
US	Ling Li
US	Hong Wang
US	John Warfield
US	Meng Chu Zhou

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

AIMS

To influence the applications of computers with respect to individuals, groups, institutions and society. It is not concerned with computer developments which are strictly technical, or developments in which there is no scientific or technical component.

SCOPE

- Communicating Social Consequences:
  promote communication between computer-related professionals and others on relationships between computer technology and society.
- Promoting Social Accountability:
  help computer professionals to develop increasing awareness of the social consequences of their work, within IFIP and in the profession at large.
- Facilitating Research:
  encourage studies on the effects of the uses of computers on individuals and society.
- Humanizing Information Systems:
  examine how the needs of individuals and society affect the design of technical systems involving computers.
- Enhancing the Quality of Life:
  identify and promote those uses of information processing which improve the quality of life of individuals and of society as a whole.
- Encouraging Responsible Long-Range Planning:
  promote forecasting studies to disseminate early warnings on human consequences of the use of computers, and encourage the development of long-range social plans to ensure that the use results in human benefits.

URL: http://www.info.fundp.ac.be/~jbl/IFIP_tc9/index.html

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	FI	Markku Nurminen	NO	Bernt Nilsen
AT	Gerald Steinhardt	FR	Gerard Verroust	PL	Andrzej Straszak
BE	Jacques Berleur	GB	Richard Sizer	PT	António Brandão Moniz
BG	Nelly Ognyanova	GR	Vassilios Laopodis	RS	Čedomir Šuljagić
CA	William McIver	HU	Robert Pinter	SE	Ingela Larsson
CN	Xin Xiang Chen	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	Tsuneo Matsumoto	US	John Impagliazzo
ES	Ignacio Gil-Perchuán	NL	Peter van den Besselaar	ZA	Letlibe Jacob Phahlamohlaka

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	DE	Sebastian Remer	NO	Torsten Hjelle
AT	Ina Wagner	DE	Mascha Will-Zocholl	NO	Gasparus Jarulaitis
AU	Julie Cameron	DK	J.P. Bansler	PT	Antonio Moniz
BE	Dirk Deschoolmeester	DK	Lars Christensen	PT	Jose Sampaio
CA	Ellen Balka	DK	Finn Kensing	SE	Gunilla Bradley
CA	Andrew Clement	DK	J. Kjaer	SE	Boel Carlsson
CA	Duncan Sanderson	DK	Hrønn Sigurdardottier	SE	S. Friis
DE	U. Briefs	DK	Jesper Simonsen	SE	Agneta Olerup
DE	Klaus Fuchs-Kittowski	FI	Pertti Järvinen	SE	Ingela Larsson
DE	Th. Herrmann	FI	Markku Nurminen	US	Steve Barley
DE	Brita Hohlmann	IE	Liam J. Bannon	US	Michael J. Muller
DE	Rinehart Keil-Slawik	NL	Peter van den Besselaar	US	Carsten Osterlund
DE	Jessica Longen	NL	F. Hertog	US	Julie Rennecker
DE	B. Lutterbeck	NL	K. Tijdens	US	Lucy Suchman
DE	Peter Mambrey	NO	Tone Bratteteig	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 Comp. Science
Trent Park, Bramley Road
LONDON N14 4YZ
United Kingdom
Tel.: +44 20 8411 4333
Fax: +44 20 8411 5216
e-mail: p.duquenoy@mdx.ac.uk

Vice-Chair
Mr. Christopher ZIELINSKI
KMS/EIP World Health Organization
Avenue Appia
CH-1211 GENEVA
Switzerland
Tel: +41 22 7914435
e-mail: zielinskic@who.int

Secretary
Mr. Kai KIMPPA
University of Turku
Dept. of Information Techn.
Datacity
Lemminkäisenkatu 14-18 A
FI-20520 TURKU, Finland
Tel. +358 2 333 8665
Fax +358 44 060 1321
e-mail: kai.kimppa@it.utu.fi

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

Fehler! Textmarke nicht definiert.

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
Mr. Kai KIMPPA
University of Turku
Dept. of Information Techn.
Datacity
Lemminkäisenkatu 14-18 A
FI-20520 TURKU, Finland
Tel. +358 2 333 8665
Fax +358 44 060 1321
e-mail: kai.kimppa@it.utu.fi

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

*) 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	GB	L. Haddon	JP	K. Go
AU	Steve Howard	GB	W. Huang	NL	Berry Eggen
AU	P. Jones	GB	D. Lawrence	NL	Felix van Rijn
CA	Geoff Cragg	GB	A. Monk	NO	Richard Ling
DK	Kresten Bjerg	GB	Tony Proctor	SE	Gunilla Bradley
DK	Marianne Graves Petersen	GB	Andy Sloane	SE	S. Junestrand
ES	Yves Punie	GB	J. Taylor	SE	Ulf Keijer
GB	D. Beynon	HU	Andras Galambosii	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 - Applications and Social Implications of Virtual Worlds est. 1989, revised 1999, 2000

AIMS

This WG works about international trends in interactive media and virtual reality, their philosophical foundations and the impact of these technologies on culture and society. The WG will discuss in workshops and conferences applications and social implications of these emerging technologies.

SCOPE

The topics cover interdisciplinary aspects and interrelations in the field of multimedia and virtual reality between fine arts, computer science, design, philosophy, man-machine interaction, historical aspects, technology assessment. We are welcoming case studies on and experiences with virtual reality systems e.g. in medicine, architecture, industry, education, entertainment, information spaces.

- Applications of virtual worlds and their social implications,
- Social application of virtual worlds,
- Virtual environments for learning and communication like virtual universities, knowledge cities, virtual laboratories,
- Opportunities and risks of virtual environments in education, science, and
- Culture in industrialized and developing countries

URL: http://www.lrv.ufsc.br/IFIP-WG-9.5

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. Mike CHIASSON
Lancaster University
Dept.of Management Science
BAILRIGG, LANCASTER
LA1 4YX, United Kingdom
Tel. +44 1524 594 255
e-mail: m.chiasson@lancaster.ac.uk

AT	Joerg Muehlbacher
BR	Ivana F. Capanema
CA	Ike Morgulis
CH	Bernard Levrat
CL	Ricardo Baeza Yates
DE	Wolfgang Coy
DE	Susanne C. Kinzler
DE	Christin Schmidt
DK	Pernille Kraemmegaard
FI	Helena Karsten
FI	Janne Konttila
FI	Joonas Peltola
GB	Chrisanthi Avgerou
GB	Colin Beardon
GB	Tony Cornford
GB	Keith Dixon
GB	Elizabeth Duncan
GB	Paul Dunning-Lewis
GB	Joyce Lee
GB	Maria Katsorchi-Hayes
GB	Steve Little
GB	Anne McCready
GB	Julian Newman
GB	Maha I. Shaikh
GB	Pavlo Tanasyuk
GB	Brian K. Temple
GB	Will Venters
GB	Leslie Willcocks
GB	Maria Woerndl
GB	Lin Yan
GR	Anthony Papargyris
GR	Angeliki Poulymenakou
IL	Daniel Millin
IN	Rajeev Sharma
IT	Verlice-Andrea Vietri
SE	Joakim Eriksson
SE	Lone Malmborg
US	Esther Baldwin
US	Richard Beckwith
US	Kevin Crowston
US	Rodolfo Pinto Da Luz
US	Liz Davidson
US	Aaron Molenaur
US	Mark Mortensen
US	Michael O'Leary
US	Wanda Orlikowski
US	Cindy Pickering
US	Velvet Weems-Landingham
US	Kangning Wei
US	Eleanor Wynn
UY	Guenther Cyranek
ZA	Dave Lockwood

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
Dr. Albin ZUCCATO
TeliaSonera
R&D Information Security
Products and Services
Rudsjöterrasen 2
SE-13646 HANINGE
Sweden
Tel. +46 85 04 63 66 0
e-mail: albin.zuccato@teliasonera.com

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	ES	Francisco Javier Lopez-Munoz	IT	Giovanni Iachello
AU	Philip Argy	ES	Judit Valdivia	NL	Jan Holvast
AU	Roger Clarke	FI	Juhani Paavilainen	NL	Henrik Kaspersen
AU	Andrew Freeman	FR	Philippe Le Clech	NZ	Pradeep Navalkar (SEARCC)
AU	Anthony Willis	FR	Hubert Marty-Vrayance	PL	Michal Golinski
AT	Martin Latzenhofer	GB	Rachel Burnett	RU	Victor Naumov
BE	Bieke Spruyt	GB	Riad M. Fawzi	RU	Yuri Andreevich Timofeev
BG	Nelly Ognyanova	GB	Ken Lindup	SE	Helena Andersson
CH	Beat Lehmann	GB	Charles Raab	SE	Frederik Bjoerck
CZ	Dagmar Brechlerova	GB	Peter Randle	SE	Simone Fischer-Hübner
CZ	Cestmir Halbich	GB	Richard Sizer	SE	Kjell Naeckros
DE	Arslan Broemme	GB	Anita Smith	SE	Louise Yngstrom
DE	Kai Rannenberg	GB	Frederick Wamala	SK	Daniel Olejar
DE	Kathrin Schier	GB	Robert Willison	SK	Jozef Vyskoc
ES	Jorge Davila	HR	Suzana Stojakovic-Celustka	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. John IMPAGLIAZZO
Dept. of Computer Science
Hofstra University
HEMPSTEAD
NY 11549-1030, U.S.A.
Tel. +1 516 463 6774
Fax +1 516 463 5790
e-mail: john.impagliazzo@hofstra.edu

AT	René Riedl
AT	Heinz Zemanek
AU	John M. Bennett
AU	Maxwell Burnet
AU	Bill Davey
CA	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	David Anderson
GB	Christopher P. Burton
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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
IS	Oddur Benediktsson
IS	Magnus Magnússon
IT	Corrado Bonfanti
IT	Giorgio Casadei
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 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

Prof. Alison ADAM A
University of Salford
Information Systems Institute
Maxwell Building
MANCHESTER M5 4WT
United Kingdom
Tel. +44 161 295 3125
Fax +44 161 745 8169
e-mail: a.adam@salford.ac.uk

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

*) 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
Prof. Gunilla BRADLEY
KTH, Royal Institute of Technology
IT-university
Isafjordsgatan 39
P.O. Box Electrum 229
SE-164 40 KISTA
Sweden
Tel./Fax +46 8 7664960
e-mail: bradley@imit.kth.se

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

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

Vice-Chairs

Prof. Takashi NANYA, JP
University of Tokyo
Res. Center for Adv. Science and
Technology (RCAST)
4-6-1 Komaba, Meguro-ku,
TOKYO 153-8904, Japan
Tel. +81 3 5452 5160
Fax +81 3 5452 5161
e-mail: nanya@hal.rcast.u-
tokyo.ac.jp

Prof. Daniel ETIEMBLE, FR
Universite Paris Sud
LRI Batiment 490
FR-91405 ORSAY Cedex, France
Tel. +33 1 6915 7602
Fax +33 1 6915 6586
e-mail: de@lri.fr

AR	Patricia Borensztejn	DE	Franz J. Rammig	NL	Henk J. Sips
AT	Alois Ferscha	DK	Jan Madsen	NO	Olav Landsverk
BE	Erik Dirkx	ES	Juan-Carlos López	PL	Jerzy Klamka
BG	Vladimir Lazarov	FR	Jean-Claude Laprie	PT	Ricardo J. Machado
BR	Ricardo Reis	GB	Nigel Topham	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	IT	Paolo Prinetto	SI	Dusan M. Kodek
CZ	Milan Ceska	KR	Sang Y. Min	US	John R. Curd (ACM)

ex-officio members: WG Chairs

WG10.1 - Computer-Aided Systems Theory est. 1994, dissolved 2007

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

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

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

*) 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 PROTECTION IN INFORMATION PROCESSING SYSTEMS) est. 1984, rev. 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 Commerce and
Multilateral Security
Graefstrasse 78
DE-60054 FRANKFURT/MAIN
Germany
Tel. +49 69 798 25301
Fax +49 69 798 25306
e-mail: kai.rannenberg@m-lehrstuhl.de

Vice-Chair
Prof. Rossouw von SOLMS, ZA
Nelson Mandela Metropolitan University
Dept of IT, Faculty of Engineering
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	DK	Jørn Knudsen	NL	Leon Strous
AU	William J. Caelli	ES	Francisco Javier López-Muñoz	NO	Annikken Seip
AU	Vijay Varadharajan	FI	Teemupekka Virtanen	PT	Pedro Manuel Barbosa Veiga
BE	Bart De Decker	GR	Dimitris Gritzalis	SE	Louise Yngstrom
BR	Carlos Maziero	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
DE	Hartmut Pohl	NL	Jaap-Henk Hoepman		

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://ted.see.plymouth.ac.uk/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@network-research-group.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@network-research-group.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-Chair
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

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

CA	Sylvia Osborn	US	LiWu Chang	US	Matthew Morgenstern
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

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				

WG11.5 - Systems Integrity and Control est. 1987, revised 1989 and 1991 – dissolved 2007

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

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
Dr. Indrajit RAY
Colorado State University Computer Science Dept.
601 S. Howes Street
FORT COLLINS
CO 80523-1873, USA
Tel. +1 970 491 7524
Fax +1 970 491 7524
e-mail: indrajit@cs.colostate.edu

Vice-Chair
Mr. Mark POLLITT
Digital Evidence Professional Services, Inc.
PO Box 1309
ELLICOTT CITY, MD 21043
USA
Tel. +1 410 598 3008
Fax +1 410 465 8992
e-mail: mark@digitalevidencepro.com

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	Warren Harrison	US	Vassil Roussev
FR	Thomas Duval	US	Mark Hartong	US	Kulesh Shanmugasundaram
FR	Bernard Jouga	US	Patrick Juola	US	Peter Stephenson
GB	Jonathan Clark	US	Michael Losavio	US	Christopher Swenson
JP	Ryoichi Sasaki	US	Gavin Manes	US	Anthony Whitledge
NO	Svein Willassen	US	Daniel Massey	US	Duminda Wijesekera
US	Charles Adams	US	Nasir Memon	ZA	Bennie Fei
US	Nicole Beebe	US	James Okolica	ZA	Anna Granova
US	Paul Burke	US	Kevin O'Shea	ZA	Cornelia Grobler
US	Xixin Chen	US	Mauricio Papa	ZA	Barry Irwin
US	Philip Craiger	US	Anthony Persaud	ZA	Rut Laubscher
US	David Dampier	US	Gilbert Peterson	ZA	Martin Olivier
US	Mark Davis	US	Scott Redding	ZA	Colette Trompeter
US	Rajni Goel	US	H. Richard Reeve	ZA	Hein Venter
US	David Greer	US	Golden Richard III	ZA	Cobus Venter
US	Yong Guan	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	NZ	Malcolm Shore	US	Bruce McMillin
AU	Jill Slay	RO	Liviu Muresan	US	Wayne Meitzler
AU	Craig Valli	SE	Svante Barck-Holst	US	Ann Miller
CA	Eric Byres	SE	Linda Englund	US	Krishna Moleyar
CA	John Kluver	SE	Malin Fylkner	US	Robert Mullen
CH	Myriam Dunn	US	Robert Bruce	US	Suvda Myagmar
CH	Tillman Schulze	US	Rodrigo Chandia	US	David Nicol
CN	Rocky Chang	US	Benjamin Cook	US	Paul Oman
DE	Felix Flentge	US	Robert Cunningham	US	Charles Palmer
DE	Sebastian Hess	US	Anita D'Amico	US	Mauricio Papa
ES	Javier Lopez	US	Matthew Devost	US	Jeffrey Picciotto
GB	Maitland Hyslop	US	Bruno Dutertre	US	Christine Pommerening
GB	Tyler Moore	US	Scott Dynes	US	Indrajit Ray
GB	Neil Robinson	US	Regis Friend-Cassidy	US	Carlos Restrepo
IL	Dan Assaf	US	Adrian Gheorghe	US	William Sanders
IT	Sandro Bologna	US	Seymour Goodman	US	Joost Santos
IT	Ettore Bompard	US	James Graham	US	Rick Schlichting
IT	Emiliano Casalicchio	US	Yacov Haimes	US	Paul Thompson
IT	Paolo Donzelli	US	Mark Hartong	US	William Tolone
IT	Marcelo Masera	US	Jeffrey Hieb	US	Ron Trellue
IT	Julian Rrushi	US	Rob Hoffman	US	Sid Valentine
IT	Roberto Setola	US	Jeffrey Hunker	US	Jim Watters
JP	Kenji Watanabe	US	Eric Johnson	US	Duminda Wijesekera
NL	Eric Luiijf	US	Jason Kopylec	US	Rae Zimmerman
NO	Stig Johnsen	US	Michael Lavine	ZA	Les Labuschagne
NO	Nils Svendsen	US	Shari Lawrence-Pfleeger	ZA	Martin Olivier
NO	Steven Wolthusen	US	Ulf Lindqvist		

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

1. To foster the development and understanding of Artificial Intelligence and its applications worldwide.
2. To promote interdisciplinary exchanges between Artificial Intelligence and other fields of information processing.
3. 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
DE	Bernd Neumann
DE	Petra Perner* (IAPR)
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	Peter Szeredi
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	Andrea Omicini (ACM)
US	Daniel O'Leary (IEEE)
US	Ramasamy Uthurusamy* (IJCAII)

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

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

WG12.6 - Knowledge Management est. 1998, rev. 2003

AIMS

1. To develop advanced methods for organizing, accessing and exploiting heterogeneous multimedia data which becomes available through modern communication technology
2. To bring together various areas of AI research and technology to meet this challenge, e.g. knowledge representation, natural language understanding, speech and image understanding, reasoning methods, learning, and agent technologies
3. To develop technology for diverse applications, e.g. subject-specific brokers, corporate knowledge bases, data-mining tools, content-based query languages, multimedia data indexing schemes and web-based information services.

SCOPE

Technologies, processes, and systems for supporting such aspects of knowledge management as collaboration, learning, innovation, decision making, investigation, embedding and archiving.

The interplay between inter-organizational, enterprise, group-based, and personal technologies.

Technology trends including

- the convergences of E-Learning with Knowledge Management, E-Business with Knowledge Management, Collaborative Commerce with Knowledge Management, and Science of Learning with Knowledge Management
- the gradual alignment of business process management tools in enterprise portals
- the impacts of peer-to-peer and grid computing on enterprise collaborations and computing.

URL: http://linus.it.uts.edu.au/~ppdalmar/wg12.6/index.html

Chair

Dr. Rose DIENG
INRIA
2004 route des Lucioles
BP 93
FR-06902 SOPHIA ANTIPOLIS
France
Tel. +33 49 238 78 10
email: Rose.Dieng@inria.fr

AU	Peter Dalmaris	CH	Ulrich Reimer	GB	Florence Sellini
AU	Eric Tsui	FR	Nada Matta	IT	Carla Simone
CA	Olivier Gerbe	GB	Jessica Chen-Burger	US	Daniel O'Leary
CH	Knut Hinkelmann	GB	Ann Macintosh	US	Clyde W. Holsapple

WG12.7 - Computer Vision est. 2003

AIMS

To study and develop techniques for signal and image interpretation and understanding based on Artificial Intelligence methods such as case-based reasoning and data mining.

SCOPE

The scope of the Working Group's activities includes (but is not restricted to) the following:

- Similarity assessment
- Case representation, refinement, generalization and retrieval
- Data mining of signals, images and video

URL: http://www.ibai-research.de/

Chair
Dr. Petra PERNER
Institute of Computer Vision and Applied Computer Sciences
Körnerstraße 10
DE-04107 LEIPZIG
Germany
Tel. +49 341 86 12 273
Fax +49 341 86 12 275
e-mail: pperner@ibai-institut.de

Vice-Chair
Dr. Alec HOLT
University of Otago
School of Business
Information Science Dept.
Commerce Building
60 Clyde Street
DUNEDIN, New Zealand
Tel. +64 3 479 5032
Fax +64 3 479 8311
e-mail: aholt@infoscience.otago.ac.nz

Secretary
Mrs. Christiane SCHATTE
Institute of Computer Vision and Applied Computer Sciences
Körnerstraße 10
DE-04107 LEIPZIG
Germany
Tel: +49 341 86 12 273
Fax +49 341 86 12 275
e-mail: schatte@ibai-institut.de

Member list under construction

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
P.O. Box 1600
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
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	GB	Gilbert Cockton	NZ	Mark Apperley
BR	Maria Cecilia Baranauskas	GR	Nikos Avouris	PL	Juliusz L. Kulikowski
CH	Ute Klotz	IT	Fabio Paterno	PT	Joaquim A. Jorge
CN	Chengqing Zong	IE	Liam Bannon	SE	Jan Gulliksen*
CZ	Vaclav Matousek	IN	Anirudha Joshi	SG	Kee Yong Lim
DE	Tom Gross*	JP	Masaaki Kurosu	US	Nahum D. Gershon (IEEE)
DE	Horst Oberquelle	NG	Chris C. Nwannenna	US	John Karat (ACM)
ES	Julio Abascal				

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
University of South Africa
School of Computing
P O Box 392,
ZA-UNISA, 0003
South Africa
Tel. +27 12 429 6677
Fax +27 12 429 6655
e-mail*:* kotzep@unisa.ac.za

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

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

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-Chairs

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

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

Secretary

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

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

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. Monique NOIRHOMME-FRAITURE
Univ.Notre Dame de la Paix
Inst. d'Informatique
21 rue Grandgagnage
BE-5000 NAMUR, Belgium
e-mail: mnoirhomme@info.fundp.ac.be

Vice-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

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	GB	Norman Alm	GR	John Darzentas
AU	Robert Pedlow	GB	Lesley Axelrod	GR	Constantine Stephanidis
BE	Anne de Baenst	GB	Geoff Busby	NL	Mathijs Soede
BE	Jan Engelen	GB	David Colven	NL	M.A. Neerincx
DE	Klaus Fellbaum	GB	Julie Howell	NL	Floris van Nes
DE	Carlos A. Velasco	GB	Caroline Jarrett	PT	Luis Azevedo
DE	Gerhard Weber	GB	Martin Maguire	SE	Jan Gulliksen
ES	Julio Abascal	GB	Helen Petrie	SE	Clas Thoren
FI	Ilkka Saarnio	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, UK
Tel. +44 141 330 6053
Fax +44 141 330 4913
e-mail: johnson@dcs.gla.ac.uk

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

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
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

Vice-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

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 Lindgard*	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

TC 14 (ENTERTAINMENT COMPUTING) est. 2002 as SG16 / approved in 8/06 as TC14, revfised 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, JP
Kwansei Gakuin Univ.
Dept.of Informatics
School of Science & Techn.
2-1 Gakuen
MITA-SHI, Hyogo Prefecture 669-1337
JAPAN
Tel. +81 795 65 7670
Fax +81 795 65 9077
e-mail: nakatsu@ksc.kwansei.ac.jp

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

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

*) Honorary member
**) Observing member

WG14.1 – Digital Storytelling est. 2002, rev 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

FR	Stephane Natkin	PT	Ana Paiva	US	Michael Young

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

AIMS
- For the benefit of society, to promote visibility and to increase the impact of research and development in the entertainment computing area, especially in the fields defined in the scope of this working group.
- To promote quality and relevance of academic and industrial research and development in the entertainment computing area.
- To promote ethical behavior and appropriate recommendations or guidelines for research related activities, for example, submission and selection of publications, organization of conferences, allocation of grants and awards, and evaluation of professional merits and curricula.
- To promote cooperation between researchers and with other established bodies and organizations pursuing the above aims.
- To contribute to assessing the scientific merits and practical relevance of proposed approaches for entertainment technology and applications.

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/

Chair
Prof. Matthias RAUTERBERG
Technical Univ. of Eindhoven
Faculty Industrial Design
Center for User-System Interaction
P.O. Box 513
NL-5600 MB EINDHOVEN
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, rev. 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 Maastricht
Faculty of Humanities and Sciences,
Maastricht ICT Competence Centre
P.O.Box 616
NL-6200 MD MAASTRICHT
The Netherlands
Tel. +31 43 38 83485
Fax +31 43 38 84897
e-mail: herik@micc.unimaas.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, rev. 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	JP	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

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- 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
Bauhaus University Weimar
Dept. of Architecture
Geschwister-Scholl-Straße 8
DE-99423 WEIMAR
Germany
Tel. +49 36 43/58 -0
e-mail: k.chorianopoulos@archit.uni-weimar.de

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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.

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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

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Amy BRAIS
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
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