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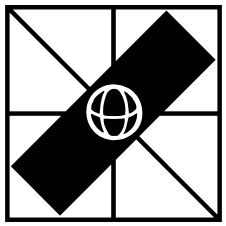
IFIP

INFORMATION BULLETIN



INTERNATIONAL FEDERATION FOR INFORMATION PROCESSING

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IFIP SECRETARIAT

HOFSTRASSE 3
A-2361 LAXENBURG
AUSTRIA

Executive Director:	Plamen NEDKOV
Administrative Assistants:	Dorothy HAYDEN Brigitte BRAUNEIS
Telephone:	+43 2236 73 616
Telefax:	+43 2236 73 616 9
e-mail:	ifip@ifip.or.at
Internet-URL:	http://www.ifip.org http://www.ifipcongress.org

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IFIP's PAST PRESIDENTS

L. Auerbach	U.S.A.	1960-1965
A. Speiser	Switzerland	1965-1968
A. A. Dorodnicyn	Russia	1968-1971
H. Zemanek	Austria	1971-1974
R. I. Tanaka	U.S.A.	1974-1977
P. A. Bobillier	Switzerland	1977-1983
K. Ando	Japan	1983-1986
A. W. Goldsworthy	Australia	1986-1989
Bl. Sendov	Bulgaria	1989-1992
A. Rolstadas	Norway	1992-1995
K. Bauknecht	Switzerland	1995-1998
P. Bollerslev	Denmark	1998-2001
R. Aiken	U.S.A	Sep-Nov 2001 (resigned)
W. Grafendorfer	Austria	Dec 2001-Sep 2002 (acting)

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 Newsletter, 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:

http://www.ifip.or.at/

The Information Bulletin is printed free of charge by Kluwer Academic Publishers.

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 48 organizations as Full Members, 3 Corresponding Members and 10 Affiliate Members, representing countries from all regions of the world.

Organization

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 17th IFIP World Computer Congress was held in August 2002 in Montreal, Canada. Toulouse, France will be the venue of the 18th IFIP World Computer Congress from 23 to 26 August 2004 (www.wcc2004.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 twelve such Committees. Each Technical committee is, in effect, a management team responsible for a given field of activity and for the work

of from three to nine Working Groups, a total of 80. 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

Yana LAMBERT
IFIP Editor
Kluwer Academic Publishers
101 Philip Drive
Norwell, MA 02061, U.S.A.
Tel: +1 781 681-0604
Fax: +1 781 871-7507
E-mail: yana.lambert@wkap.com

IFIP Newsletter

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 both hard copy and electronic form.

Newsletter editor:

Dr. J. L. ROSENFELD
15 Eldridge Ave.
OSSINING, NY 10562-4403, U.S.A.
Tel. +1 914 941 5222
e-mail: j.l.rosenfeld@alum.mit.edu

Newsletter online:

http://www.ifip.or.at/newsl.html

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. The Executive Director is Plamen Nedkov who with the assistance of Dorothy Hayden and Brigitte Brauneis is responsible for the wide range of 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'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.

18th WORLD COMPUTER CONGRESS

Toulouse, France, August 23-26, 2004
www.wcc2004.org

Welcome to Toulouse

Toulouse is proud to host the 18th edition of the IFIP World Computer Congress. The congress will cover recent advances in all fields of Computing and Communication Sciences and Technologies, from theoretical informatics to the relationship between informatics and society, through hardware and software technologies, artificial intelligence, human-system interactions and education, without forgetting non-functional aspects relating to our dependency on computing and communication systems, and the associated risks.

Toulouse possesses the right mix of quality for making WCC2004 a great success :

- a wide diversity of computing and communication activities, both industrial and in research or higher education,
- a strong involvement of local bodies, backed by the population,
- dynamic universities representing 110 000 students,
- a friendly life style and a mild climate at that time of year,
- prestigious sites for organizing the social program and activities for the accompanying persons, a wide variety of places of interest: natural, historical and cultural sites, not to mention high quality, regional gastronomy.

Contacts

Jean-Claude LAPRIE
Congress Chair
laprie@wcc2004.org

Marie DERVILLERS
Local Organization Chair
dervillers@wcc2004.org

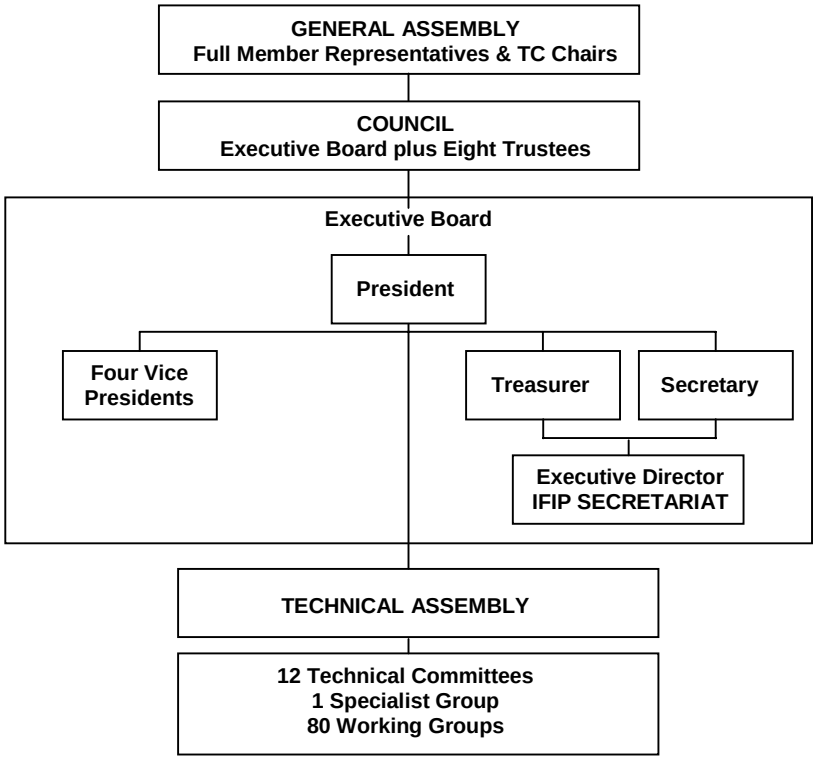
Congress Secretariat
Europa Organisation
5, rue Saint-Pantaléon - BP 844
FR-31015 Toulouse cedex 6
France
Phone : +33 (0)5 34 45 26 45
Fax : + 33 (0) 5 34 45 26 46
europa@europa-organisation.co

Reino KURKI-SUONIO
Program Chair
rks@cs.tut.fi

SEE
11-17 rue Hamelin
FR-75 783 Paris cedex 16
France
www.see.asso.fr

LAAS-CNRS
7, avenue du Colonel Roche
FR-31077 Toulouse cedex
France
www.laas.fr

IFIP Organisation Chart



STANDARD INFORMATION

IFIP COUNCIL

Executive Board				**Responsibilities**
K. Brunnstein	President	DE	2002/2004	Congresses, DL, Strat. Planning
J.C. Laprie	Vice-President	FR	2002/2005	Marketing
P. Ralston	Vice-President	AU	2001/2003	CCI
R. Reis	Vice-President	BR	2001/2004	AMB, Admissions, Trustee Nominations
B. von Solms	Vice-President	ZA	2002/2004	Technical Assembly, Publications
D. Khakhar	Treasurer	SE	2001/2005	IFIPSEC, Dev. Countries
R. Johnson	Secretary	GB	2001/2005	IFIPSEC, S&B, Int. Awards, Officer Nominations

Trustees		
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D. Y. Kim	KR	2002/2004
R. Kurki-Suonio	FI	2000/2003
J. Lee	US/IEEE	2000/2003
A. del Moral	ES	2001/2003
N. Schlamberger	SI	2002/2005
J. Turner	US/ACM	2002/2005
Q. Wang	CN	2001/2004

IFIP GENERAL ASSEMBLY

I. Honorary Members:

Prof. K. **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. P.A. **BOBILLIER**
128 Rte de Soral
CH-1233 LULLY, Switzerland
Tel. +41 22 757 2021
Fax +41 22 757 6726
e-mail: bobillierp@freesurf.ch

Prof. A.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. A. **MELBYE**
Morlenesvej 11
DK-2840 HOLTE, Denmark
Tel. +45 4542 2912
e-mail: melbye@ddf.dk

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

Prof. A. **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: arolst@ipk.ntnu.no

Acad. B. **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. R.I. **TANAKA**
10321 Shadyridge Drive
SANTA ANA, CA 92705, U.S.A.
Tel. +1 714 838 7450
e-mail: ritanaka@home.com

Prof. H. **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

II. 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. D. **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
ARGENTINA **SADIO** Uruguay 252 - 2nd Floor, D 1015 BUENOS AIRES, Argentina Tel. +54 11 4371 5755 Fax +54 11 4372 3950 e-mail: postmaster@sadio.org.ar URL: http://www.sadio.org.ar	Ms. C. 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
ARMENIA National Academy of Sciences of the Republic of Armenia 24 Marshall Baghramian Ave. 375019 YEREVAN Republic of Armenia Tel. +7 7341 527031 Fax +7 88539 06867 e-mail: academy@sci.am URL: http://www.sci.am/	Acad. F. **SARGSIAN** National Academy of Sciences of the Republic of Armenia 24 Marshall Baghramian Ave. 375019 YEREVAN Republic of Armenia Tel. +7 8852 527031 Fax +7 8852 523640 e-mail: shouk@pnas.sci.am or fsark@sci.am
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. P. **RALSTON** 80 Staveley Close SINNAMON PARK, QLD 4073 Australia Tel. +61 7 371 55709 Fax +61 7 371 55835 e-mail: prins@ebmconsult.com.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. W. **GRAFENDORFER** Grillparzergasse 4 A-3002 PURKERSDORF, Austria Tel/Fax +43 2231 64127 e-mail: grado@telering.at

BELGIUM

Fed. des Assoc. Informat. de Belgique
FAIB-FBVI
Bloesemlaan 17
B-3360 KORBEEK-LO, Belgium
Tel. +32 16 46 2841
e-mail: hubert.christiaen@kc.kuleuven.ac.be
URL: http://www.bfia.be/

to be nominated

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. R.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 6830
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. K. **BOYANOV**
Central Laboratory for Parallel Processing
Acad. G. Bonchev Str., Bl.25 A
SOFIA 1113, Bulgaria
Tel. +359 2 703260
Fax +359 2 707273
e-mail: boyanov@acad.bg

CANADA

Canadian Information Processing
Society (CIPS)
2800 Skymark Avenue, Suite 402
MISSISSAUGA, ON. L4W 5A6, Canada
Tel. +1 905 602 1370
Fax +1 905 602 7884
e-mail: info@cips.ca
URL: http://www.cips.ca/

Mr. G. **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. M. **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@diinf.usach.cl

CHINA

Chinese Institute of Electronics
CIE Secretariat, c/o Mr. M. Zhou
P.O. Box 165
BEIJING 100036, China
Tel. +861 06828 3463
Fax +861 06828 3458
e-mail: mqzhou@public.bta.net.cn
URL: http://www.cie-china.org

Prof. Q. **WANG**
China Integrated Circuit Design Center
ICCAD Natl. Engin. Research Center
No.1 Gao Jia Yuang, Chaoyang Distr.
P.O. Box 8545
BEIJING 100015, China
Tel. +861 064363294
Fax. +861 064360985
e-mail: wangqs@cidc.com.cn

CROATIA

Croatian Information Technology Society - CITS
Trg Mazuranica 8/III
10000 ZAGREB, Croatia
Tel. +385 1 48 55 271
Fax +385 1 48 55 272
e-mail: hiz@hiz.hr
URL: www.hiz.hr

Mr. M. **FRKOVIC**
Croatian Chamber of Economy
Director of IT Sector
Rooseveltov trg 2
10000 ZAGREB, Croatia
e-mail: marijan.frkovic@hgk.hinet.hr
Fax +385 1 4561 520

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. C. **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@dits.mof.gov.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

to be nominated

DENMARK

Danish IT Society
St. Kongensgade 59 A
DK-1264 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. P. **BOLLERSLEV**
Rojlevangen 40
DK-2630 TAASTRUP, Denmark
Tel. +45 43 527758
Fax +45 43 717758
e-mail: peter@bollerslev.com

EGYPT

Egyptian Computer Society
P.O. Box 9009
Nasr City
CAIRO, Egypt
Tel. +202 2608182
Fax +202 2603880
e-mail: ecomps@ritsec3.com.eg
URL: http://www.ifip.or.at/members/egypt.htm

Dr. A. **SARHAN**
c/o Egyptian Computer Society
P.O. Box 9009
Nasr City
CAIRO, Egypt
Tel. +202 2608182-4013000
Fax +202 2603880
e-mail: sarhan@idsc.net.eg

FINLAND

Finnish Information Processing Association
P.O. Box 325
FIN-00181 HELSINKI, Finland
Tel. +358 9 476 5800
Fax +358 9 476 58595
e-mail: natalia.ritonen@ttlry.fi
URL: http://www.ttlry.fi/

Prof. R. **KURKI-SUONIO**
Software Systems Lab.
Tampere Univ. of Technology
P.O. Box 553
FIN-33101 TAMPERE 10, Finland
Tel. +358 3 365 2699
Fax +358 3 365 2913
e-mail: rks@cs.tut.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. J.-C. **LAPRIE**
LAAS-CNRS
7 Ave. du Colonel Roche
F-31077 TOULOUSE CEDEX
France
Tel. +33 561 336270
Fax +33 561 553577
e-mail: 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. K. **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)
Thessaloniki & Chandri 1
Moshato
GR-18346 ATHENS, Greece
Tel. +30 1 480 2886
Fax +30 1 480 2889
e-mail: epy@epy.gr
URL: http://www.epy.gr

Prof. S. **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 Society (NJSZT)
for Computing Sciences
P.O. Box 451, Bathori u. 16
H-1054 BUDAPEST, Hungary
Tel.+36 1 332 9349 or 332 9390
Fax +36 1 331 8140
e-mail: titkarsag@njszt.hu
URL: http://www.njszt.hu

Dr. B. **DOMOLKI**
c/o John v. Neumann Computer Society
P.O. Box 451, Bathori u. 16
H-1054 BUDAPEST, Hungary
Fax +36 1 331 8140
e-mail: domolki@iqsoft.hu

INDIA

Computer Society of India (CSI)
122, T.V. Industrial Estate
S.K. Ahire Marg.
WORLI-BOMBAY 400 025, India
Tel. +91 22 494 3422
Fax +91 22 495 0543
e-mail: csi@bom2.vsnl.net.in
URL: http://www.csi-india.org

Prof. C. R. **MUTHUKRISHNAN**
Indian Institute of Technology, Madras
B-10, Lake View Road
CHENNAI 600 036
India
e-mail: crm@iitm.ernet.in

IRELAND

Irish Computer Society
110 The Windmill
Sir John Rogerson's Quay
DUBLIN 2, Ireland
Tel. +353 1 672 7998
Fax +353 1 672 8003
e-mail: info@ics.ie
URL: http://www.ics.ie/

Mr. D. **BRADY**
c/o Irish Computer Society
110 The Windmill
Sir John Rogerson's Quay
DUBLIN 2, Ireland
Tel. +353 1 672 7998
Fax +353 1 672 8003
e-mail: declan.brady@icl.com

ISRAEL

IPA-Information Technology
Association of Israel
P.O. Box 50006
TEL AVIV 61500, Israel
Tel. + 972 3 514 0503
Fax + 972 3 514 0077
e-mail: I_L_A@netvision.net.il
URL: http://www.ifip.or.at/members/israel.htm

Mr. M. **GOTTLIEB**
Bar-Ilan Univ., Comp. Center
RAMAT-GAN 52900, Israel
Tel. +972 3 531 8328
Fax +972 3 534 4446
e-mail: moshe.gottlieb@mail.biu.ac.il

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. A.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)
Shibaura-Maekawa Bldg. 7F
3-16-20, Shibaura, Minato-ku
TOKYO 108-0023, Japan
Tel. +81 3 5484 3535
Fax +81 3 5484 3534
e-mail: yanagawa@ipsj.or.jp
URL: http://www.ipsj.or.jp/

Mr. H. **HORIKOSHI**
Hitachi Information SystemsLtd.
16-5 Dogenzaka, 1-chome
Shibuya-ku
TOKYO 150-8540, Japan
Tel. +81 3 3464 7911
Fax +81 3 3780 6894
e-mail: horikoshi@hitachijoho.com

Rep. of **KOREA**

Korea Information Science Society (KISS)
Room 401, Murijae 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: kiss@kiss.or.kr
URL: http://kiss.or.kr/english.html

Prof. D. Y. **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@madang.ajou.ac.kr

LITHUANIA

Lithuanian Computer Society
A. Gostauto 12 - 211
LT-2600 VILNIUS, Lithuania
Tel. +370 2 62 05 36
Fax +370 2 61 99 05
e-mail: liks@liks.lt
URL: http://www.liks.lt

Dr. R. **GUDAUSKAS**
Counsellor of Prime Minister
Gedimino Ave. 11
LT-2039 VILNIUS, Lithuania
Tel. +370 2 663 828
Fax +370 2 663 847
e-mail: r.gudauskas@lrvk.lt

MALAYSIA

Malaysian National Computer Confederation
Unit 916, 9th Floor, Block A
Damansara Intan
1, Jalan SS20/27
47400 PETALING JAYA
Malaysia
Tel. +603 7118 3040
Fax +603 7118 2930
e-mail: info@mncc.po.my
URL: http://www.mncc.com.my

Dr. R. 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: rmalik@mncc.po.my

NETHERLANDS

Nederlands Genootschap voor Informatica (NGI)
PO Box 3140
NL-3502 GC UTRECHT
The Netherlands
Tel. +31 30 2844510
Fax +31 30 2844511
e-mail: info.ngi@ngi.nl
URL: http://www.ngi.nl/

Mr. L. A. M. **STROUS**
Vice-President, NGI
Gistel 20
NL-5707 GV HELMOND
The Netherlands
Tel. +31 492 548636
Fax +31 492 548636
e-mail: strous@iaehv.nl

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. G. **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. A. **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
Palac Kultury Nauki
PL-00 901 WARSAW, Poland
Tel. +48 22 6566 289
Fax +48 22 6522567
e-mail: ploszajs@warman.com.pl
URL: http://www.ifip.or.at/members/poland.htm

Prof. Z. **BUBNICKI**
Wroclaw University of Technology
Institute of Control & Syst.Eng.
ul. Wybrzeze Wyspianskiego 27
PL-50370 WROCLAW, Poland
Tel. +48 71 320 3328
Fax +48 71 320 3884
e-mail: bubnicki@ists.pwr.wroc.pl

PORTUGAL

Associacao Portuguesa de Informatica
Av. Almirante Reis, 127-1 Esq.
PT-1150 LISBOA, Portugal
Tel. +351 21 314 5787
Fax +351 21 357 0410
e-mail: api@mail.telepac.pt
URL: http://www.api.pt/api_.htm

Mr. J.A.C. **GRANADO**
Espirito Santo Data Informatica
Av. do Forte, 8 - 1
PT-2795 CARNAXIDE, Portugal
Tel. +351 21 4167050
Fax +351 21 4167070
e-mail: jose.granado@esdata.pt

RUSSIA

The Russian Academy of Sciences
c/o Secretary General
Leninski prospect 14
117901 MOSCOW V-71, Russia
Tel. +70 95 237 2822
Fax +70 95 237 9107
URL: http://www.ras.ru

SINGAPORE

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

Mr. M. **TSANG**
Singapore Computer Society
c/o National Trade Union Congress
Level 5 Information Technology
73 Bras Basah Road
SINGAPORE 189556, Singapore
Tel. +65 837 8270
Fax +65 339 0154
e-mail: tsangm@ntuc.org.sg

SLOVAKIA

Slovak Society for Computer Science
MFF 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. I. **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. +386 123 40836
Fax +386 123 40860
e-mail: info@drustvo-informatika.si
URL: http://www.drustvo-informatika.si/

Mr. N. **SCHLAMBERGER**
Slovenian Society INFORMATIKA
Vozarski pot 12
SI-1000 LJUBLJANA, Slovenia
Tel. +386 123 40836
Fax +386 123 40860
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. S. von **SOLMS**
Rand Afrikaans University
Dept. Computer Science
PO Box 524
AUCKLAND PARK 2006, South Africa
Tel. +27 11 489 2843
Fax +27 11 489 2138
e-mail: basie@rkw.rau.ac.za

SPAIN

FESI - Federacion Espanyola de Sociedades de Informatica
c/o Prof. E. Torrano Gimenez
Universidad Politecnica de Madrid
Facultad de Informatica
Campus de Montegancedo s/n
Boadilla del Monte
ES-28660 MADRID, Spain
Tel. +34 91 336 74 02
Fax +34 91 336 74 12
e-mail: fesi@fi.upm.es
URL: http://www.fesi.fi.upm.es/

Prof. A. **DEL MORAL**
Vice Dean of the Faculty of Computer Science
University of Deusto
Avda de las Universidades, 24
ES-48007 BILBAO, Spain
Tel. +34 94 413 9194
Fax. +34 94 413 9101
e-mail: adelmoral@eside.deusto.es

SWEDEN

Swedish Information Processing Society
Box 45 153
SE-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. D. **KHAKHAR**
Dept. of Informatics
University of Lund
Ole Romersveg 6
SE-22363 LUND, Sweden
Tel. +46 46 222 8028
Fax +46 46 222 4528
e-mail: dipak.khakhar@ics.lu.se

SWITZERLAND

Swiss Federation of Information Processing Societies (SVI/FSI)
P.O. Box 71
CH-8037 ZURICH, Switzerland
Tel. +41 1 371 7342
Fax +41 1 371 2300
e-mail: admin@s-i.ch
URL: http://www.svifsi.ch/

Prof. R. **MOREL**
CPTIP
P. O. Box 3144
CH-1211 GENEVA 3, Switzerland
Tel. +41 22 3180530
Fax +41 22 3180535
e-mail: raymond.morel@tecfa.unige.ch

SYRIA

Syrian Computer Society (SCS)
P.O. Box 33492
DAMASCUS, Syria
Fax. +963 11 373 7558
e-mail: scs@syriatel.net
URL: http://www.scs-syria.com

Dr. B. **MOUNAJED**
P.O. Box. 10316
DAMASCUS, Syria
Tel. +963 11 3334557
Fax. +963 11 3730537
e-mail: softcad@net.sy

THAILAND

Thailand Internet Association
Assumption University (ABAC), Rm 5, D-Bldg.
Ramkhamhaeng 24, Huamark
BANGKOK 10240, Thailand
Tel. +662 719 1577
Fax +662 719 0484
e-mail: charm@ksc.net.th

Prof. S. **CHARMONMAN**
Assumption University (ABAC)
Ramkhamhaeng 24
BANGKOK 10240, Thailand
Tel. +662 7191583-9
Fax +662 7190484
e-mail: charm@ksc.net.th

UNITED KINGDOM

The British Computer Society (BCS)
c/o Mrs. P. Walmisley
7, Mansfield Mews
LONDON, W1G 9NJ, U.K.
Tel. +44 20 7637 5607
Fax +44 20 7637 5607
e-mail: pwalmisley@hq.bcs.org.uk
URL: http://www.bcs.org.uk/

Dr. R.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-based

Association for Computing Machinery (ACM)

c/o Mr. F. Aronson, Assoc. Director
1515 Broadway
NEW YORK, NY 10036, U.S.A.
Tel. +1 212 626 0515
Fax +1 212 302 5826
e-mail: aronson@acm.org
URL: http://www.acm.org

Prof. A.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. J.A.N. **LEE**
Dept.of Comp.Science
Virginia Tech
BLACKSBURG, VA 24061-0106, U.S.A.
Tel. +1 540 231 5780
Fax +1 540 231 6075
e-mail: janlee@cs.vt.edu

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

Mr. L. **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

III. Ex-Officio Members:

All Technical Committee Chairs

IV. Corresponding Members:

Society	Representative
CLEI **CENTRO LATINOAMERICANO DE ESTUDIOS INFORMATICA** c/o Secretaria Ejecutiva, CLEI Ing. Patricia CORBO Escuela de Ingenieria Universidad ORT-Uruguay Cuareim 1451 11100 MONTEVIDEO, Uruguay Tel. +598 2 9021505 ext. 228 Fax: +598 2 9081370 e-mail: corbo@athenea.ort.edu.uy URL: http://www.clei.cl	Prof. R. **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.
ICELAND The Icelandic Society for Information Processing Holtagordum vid Holtaveg IS-104 REYKJAVIK, Iceland Tel. +354 553 2460 Fax +354 520 7171 e-mail: sky@sky.is URL: http://www.sky.is	Prof. A. **KRISTJANSDOTTIR** Iceland University of Education v/Stakkahlio IS-105 REYKJAVIK, Iceland Tel +354 563 3800 Fax +354 563 3833 e-mail:ak@khi.is
NEW ZEALAND New Zealand Computer Society, Inc. PO Box 10-044 WELLINGTON, New Zealand Tel. +64 4 4731043 Fax +64 4 4731025 e-mail: nzcs@nzcs.org.nz URL: http://www.nzcs.org.nz	Mr. M. **HARTE** Dunedin City Council PO Box 5045 DUNEDIN, New Zealand Tel. +64 3 474 3875 Fax +64 3 474 3503 e-mail: mharte@dcc.govt.nz

V. Affiliate Members:

Society	Representative
CEPIS Council of European Professional Informatics Societies Stresemannallee 15 D-60596 FRANKFURT Germany Tel. +49 69 6308-393 Fax +49 69 9631 5233 e-mail: secretary@cepis.org URL: http://www.cepis.org	Prof. W. **STUCKY** Univ. of Karlsruhe Inst.of Appl. Informatics - AIFB Englerstr. 11 D-76128 KARLSRUHE Germany Tel. +49 721 608 3812 Fax +49 721 606 685 e-mail: stucky@aifb.uni-karlsruhe.de
FACE The International Federation of Associations of Computer Users in Engin., Architecture and Related Fields P.O.Box 722, Attn.: Mr. M. JONES RICHMOND, VIC 3121 Australia Tel. +61 3 9429 7500 Fax +61 3 9429 7117 e-mail: mjones@ausdec.com.au	Dr. A. **BRIDGES** ABACUS, Dept. of Architecture & Building Science Univ. of Strathclyde 131 Rottenrow GLASGOW, G4 ONG, U.K. Tel. +44 141 552 4400 Fax +44 141 552 0775
IAPR International Association for Pattern Recognition 66 Weston Park THAMES DITTON, Surrey KT7 OHL U.K. Tel. +44 181 398 2766 Fax +44 181 398 2766 e-mail: susanmduff@cs.com URL: http://www.iapr.org	Dr. H.S. **BAIRD** Xerox Palo Alto Research Center 3333 Coyote Hill Road PALO ALTO, CA 94304 U.S.A. Tel. +1 650 812 4481 Fax +1 650 812 4374 e-mail: baird@parc.xerox.com
IASC International Association for Statist. Computing 428 Prinses Beatrixlaan NL-2270 AZ VOORBURG, The Netherlands Tel. +31 70 337 5737 Fax +31 70 386 0025 e-mail: isi@cbs.nl URL: http://www.cbs.nl/isi/iasc.htm	Prof. J. **BROSVEET** Norw. Univ. f. Science & Techn. c/s ISI Centre f. Techn. & Society N-7055 DRAGVOLL, Norway Tel. +47 776 6611 Fax +47 776 1017 e-mail: jbrosvee@online.no

ICCC

International Council for Computer Communication
P.O. Box 9745
WASHINGTON, DC 20016-9745
U.S.A.
Tel./Fax +1 703 836 7787
e-mail: office@icccgovernors.org
URL: http://www.icccgovernors.org

Mr. T.J. **MEYERS**
Cudert Brothers
1627 I Street, N.W., suite 1200
WASHINGTON, DC 20006, U.S.A.
Tel. +1 202 736 1805
Fax +1 202 775 1168
e-mail: tmeyers@tedson.com

IJCAII

International Joint Conference on Artificial Intelligence, Inc.
c/o Ms. P. Rasmussen
P.O. Box 5490
SOMERSET, NJ 08875, U.S.A.
Tel./Fax +1 973 445 3003
e-mail: rasmusse@ijcai.org
URL: http://ijcai.org/

Dr. R. **UTHURUSAMY**
General Motors IS&S
200 Renaissance Center
DETROIT, MI 48265-2000, U.S.A.
Tel. +1 313 667 4669
Fax +1 313 667 46167
e-mail: samy@gm.com

IMIA

International Medical Informatics Association
IMIA Executive Director
Mr. S. A. Huesing
5782-172 Street
EDMONTON, Alberta T6M 1B4, Canada
Tel. +1 780 489 4531
Fax +1 780 489 3290
e-mail: steven.huesing@imia.org
URL: http://www.imia.org

Dr. K-C. **LUN**
Nanyang Technological University
School of Biological Sciences
1 Nanyang Walk
SINGAPORE 637616
Singapore
Tel. +65 790 3726
Fax +65 896 8874
e-mail: kclun@ntu.edu.sg

INFORMS

Institute for Operations Research and Management Sciences
901 Elkridge Landing Rd, Ste 400
LINTHICUM, MD 21090- 2909, U.S.A.
Tel. +1 410 850 0300
Fax +1 410 684 2963
e-mail: informs@informs.org
URL: http://www.informs.org/

Mr. J. M. **LUCAS**
EDS
750 Tower Drive MS 6D
TROY, MI 48098
U.S.A.
Tel. +1 248 265 5654
Fax +1 248 265 0678
e-mail: john.lucas@eds.com

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 1 592 762
Fax +94 1 508 009
e-mail: yasak@lanka.ccom.lk
URL: http://www.searcc.org/

Mr. Y. **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 1 591 389
Fax +94 1 508 009
e-mail: yasak@lanka.ccom.lk

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

IFIP TECHNICAL COMMITTEES

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

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- 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.

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

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- 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.

Chair
Prof. T. ITO, JP
Tohoku University
Graduate School of Information Sciences
Dept. of Computer and Mathematical Sciences
Aoba-ku
SENDAI, 980-8579, Japan
Tel. +81 22 217 7157
Fax +81 22 263 9407
e-mail: ito@ito.ecei.tohoku.ac.jp

Secretary
Prof. N. KOBAYASHI, JP
Tokyo Institute of Technology
Graduate School of Inf. Science and Engineering
Dept. of Computer Science
2-12-1 Oo-okayama
Meguro-ku
TOKYO, 152-8552, Japan
Tel. & Fax: +81 3 5734 3698
e-mail: kobayasi@cs.titech.ac.jp

URL: http://www.dis.uniroma1.it/~ifip-tc1/

AR	J. Heintz *	FR	M. Nivat*	NL	G. Rozenberg
AT	W. Kuich*	FR	J. Sakarovitch	PT	A. Sernadas*
AU	P. D. Eades*	FI	A. Salomaa*	PL	J. Blazewicz*
BG	B. Sendov*	GB	C.A.R. Hoare	PL	A. Tarlecki
BR	I. Simon	GB	R. Milner	SI	V. Batagelj*
CA	H. Jürgensen	GB	D.T. Sannella*	SK	B. Rovan*
CA	N. Santoro	GR	N. Missirlis*	TH	S. Charmonman*
CA	D. Wood	GR	P. Spirakis	US	M. Hinchey (IEEE)*
CL	R. Baeza-Yates*	HU	Z. Esik*	US	D.S. Johnson (ACM)*
CN	Y. Feng*	IT	G. Ausiello	US	J.C. Mitchell
CZ	J. Gruska	IT	A. Bertoni	US	M.O. Rabin
DE	W. Brauer*	IT	U. Montanari	US	J.T. Traub
DE	G. Hotz	NL	J. de Bakker	US	L. G. Valiant
DK	M. Nielsen*	NL	P. van Emde Boas	ZA	A. van der Walt*
ES	J. Diaz*	NL	J. van Leeuwen*		

ex-officio members: WG Chairs
* formally nominated by National Member Societies

WG 1.1 (CONTINUOUS ALGORITHMS AND COMPLEXITY) est. 1992

Chair
Prof. J.F. TRAUB
Dept. of Computer Science
450 Computer Sc. Building
Columbia University
NEW YORK, NY 10027, U.S.A.
Tel. +1 212 939 7013
Fax: +1 212 666 0140
e-mail: traub@cs.columbia.edu

Secretary
Prof. A.G. WERSCHULZ
Dept. of Computer Science
Columbia University
NEW YORK, NY 10027, U.S.A.
Tel. +1 212 6366325
Fax +1 212 5811284 at
Fordham Univ.
e-mail: agw@cs.columbia.edu

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

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

WG 1.2 (DESCRIPTIONAL COMPLEXITY) est. 1992

Chair
Prof. D. WOTSCHKE
J.W. Goethe University
Computer Science Dept.
Fachbereich 15
Postfach 11 19 32
D-60054 FRANKFURT,
Germany
Tel. +49 69 798 23800
Fax +49 69 798 28334
e-mail:
wotschke@psc.informatik.
uni-frankfurt.de

Vice-Chairs
Dr. Ch. M.R. KINTALA
Avaya Labs
Research Realization and
Network Software Research
Rm 2A07, 233 Mount Airy Rd.
BASKING RIDGE, NJ 07920
USA
Tel. +1 908 696 5400
e-mail: cmk@avaya.com

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

Secretary
Ms. B. SUNCKEL
Univ. of Frankfurt
Computer Science Dept.
Fachbereich Informatik
Robert-Mayer Str. 11-15
D-60054 FRANKFURT,
Germany
Tel. +49 69 798 28419
Fax +49 69 798 28334
e-mail:
sunckel@psc.informatik.uni-
frankfurt.de

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

AT	W. Bucher	HU	I. Csiszar	US	A. Ehrenfeucht
AU	P. Davies	HU	E. Csuhaj-Varju	US	M. Fisher
AU	J. Quinlan	HU	L. Gerencer	US	J. Ford
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ES	J. Diaz	US	A. Botta	US	L. Stockmeyer

ES	C. Martin-Vide	US	P. Cheeseman	US	L. Valiant
ES	J. Sempere	US	T. Cover	US	J. Wheeler
FI	P. Orponen	US	K. Culik	US	W. Zurek
GB	C. Blakemore	US	B. Dom	ZA	Y. Velinov

WG 1.3 (FOUNDATIONS OF SYSTEMS SPECIFICATION) est. 1992

Chair
Prof. P.D. MOSSES
BRICS
Univ.of Aarhus
Dept.of Comp. Science
Ny Munkegade, Bldg. 540
DK-8000 AARHUS, Denmark
Tel. +45 8942 3364
Fax +45 8942 3255
e-mail: pdmosses@brics.dk

Secretary
Ms. Ch. CHOPPY
Univ. Paris Nord 13
Lab.d'Informatique de Paris-Nord
(L.I.P.N.)
Av. J.-B. Clement
F-39430 VILLETANEUSE, France
Tel: +33 1 4940 3590
Fax: +33 1 4826 0712
e-mail:
christine.choppy@lipn.univ-paris13.fr

URL: http://www.brics.dk/~pdm/IFIP-WG1.3/

DE	H. Ehrig	ES	F. Orejas	IT	U. Montanari
DE	H. Ganzinger	FR	D. Bert	IT	F. Parisi-Presicce
DE	R. Hennicker	FR	M. Bidoit	IT	G. Reggio
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DE	B. Krieg-Brückner	FR	J.-P. Jouannaud	NL	B. Jacobs
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DE	P. Padawitz	FR	P-Y. Schobbens	PT	J. Fiadeiro
DE	P. Pepper	GB	D. Sannella	PT	A. Sernadas
DE	H. Reichel	IT	E. Astesiano	US	J.A. Goguen
DE	M. Wirsing	IT	E. Boerger	US	J. Meseguer
DZ	M. Bettaz	IT	A. Corradini	US	E. Wagner

WG 1.4 (COMPUTATIONAL LEARNING THEORY) est. 1995

Chair
Prof. A. SHARMA
Univ. of New South Wales
School of Comp.Sc. & Engin.
SYDNEY NSW 2052
Australia
Tel. +61 2 9385 5518
Fax +61 2 9385 4071
e-mail: arun@cse.unsw.edu.au

Vice-Chair
Mr. P. VITANYI
CWI & Univ. of Amsterdam
Kruislaan 413
NL-1098 SJ AMSTERDAM,
Netherlands
Tel.+ 31 20 5924124
Fax+ 31 20 5924199
e-mail: paul.vitanyi@cwi.nl

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

DE	J. Jantke	JP	S. Arikawa	US	D. Haussler
DE	M. Karpinski	JP	K. Yamanisi	US	S. Kwek
DE	K. Morik	LV	R. Freivalds	US	R. Schapire
GB	M. Anthony	US	E. Baum	US	C. Smith
GB	V. Vovk	US	T. Cover	US	E. Sontag
IL	S. Ben-David	US	Y. Freund	US	L. Valiant
IT	N. Cesa-Bianchi				

WG 1.5 (CELLULAR AUTOMATA AND MACHINES) est. 1994

Chair
Prof. G. MAURI
Universita degli Studi di Milano-Bicocca
Dipt.di Informatica, Sistemistica e Comunicazione
Via Bicocca degli Arcimboldi 8
I-20126 MILANO, Italy
Tel. +39 02 64487828
Fax +39 02 64487839
e-mail: mauri@disco.unimib.it

Vice-Chair
Prof. E. GOLES
FCFM Univ.de Chile
Depto.Ing.Matematica
Casilla 170-3
Correo 3
SANTIAGO, Chile
e-mail: egoles@dim.uchile.cl

Secretary
Dr. T. WORSCH
Univ.Karlsruhe (TH)
Fak.f. Informatik
D-76128 KARLSRUHE
Germany
Tel. +49 721 608 4311
Fax +49 721 698675
e-mail: worsch@ira.uka.de

URL: http://liinwww.ira.uka.de/ca/ifip-wg-1.5.html

AT	K. Svozil	FR	H. Gutowitz	JP	K. Kobayashi
CZ	P. Kurka	FR	M. Margenstern	JP	K. Morita
DE	M. Kutrib	FR	J. Mazoyer	JP	H. Umeo
DE	R. Vollmar	HU	T. Legendi	US	N. Boccara
EE	V.Z. Aladyev	IT	S. Bandini	US	K. Culik
FR	B. Durand	IT	G. Cattaneo	US	O.H. Ibarra
FR	M. Delorme				

WG 1.6 (TERM REWRITING) est. 1998

Chair
Prof. C. KIRCHNER
LORIA - INRIA
Campus Scientifique
615, rue du Jardin Botanique
B.P. 101
F-54602 VILLERS-LES-NANCY
France
Tel. +33 3 8359 3011
Fax +33 3 8327 8319
e-mail: claude.kirchner@loria.fr

Secretary
Dr. L. VIGNERON
LORIA - University of Nancy 2
Campus Scientifique
B.P. 239
F-54506 VANDOEUVRE LES NANCY
France
Tel. +33 3 8359 3053
Fax +33 3 8327 8319
e-mail: vigneron@loria.fr

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

CN	J. Hsiang	FR	J.-P. Jouannaud	JP	M. Okada
DE	J. Avenhaus	FR	H. Kirchner	JP	M. Takahashi-Horai
DE	F. Baader	FR	P. Lescanne	JP	Y. Toyama
DE	H. Ganzinger	FR	M. Rusinowitch	NL	H. Barendregt
DE	K. Madlener	FR	G. Senizergues	NL	J.W. Klop
DE	T. Nipkow	GB	R. Kennaway	NL	V. van Oostrom
DE	F. Otto	GB	U. Martin	NL	H. Zantema
DE	M. Schmidt-Schauss	IL	N. Dershowitz	US	L. Bachmair
ES	R. Nieuwenhuis	IN	G. Sivakumar	US	M.P. Bonacina
ES	M. Rodriguez Artalejo	IT	C. Boehm	US	D. Kapur
FR	S. Anantharaman	IT	U. Montanari	US	J. Meseguer
FR	R. Caferra	IT	M. Venturini Zilli	US	P. Narendran
FR	H. Comon	JP	T. Ida	US	D. Plaisted
FR	G. Huet	JP	A. Middeldorp	US	H. Zhang

WG 1.7 (THEORETICAL FOUNDATIONS OF SECURITY ANALYSIS AND DESIGN)
est. 1999

Chair
Prof. R. GORRIERI
Dipartimento di Scienze
dell'Informazione
Via Mura Anteo Zamboni 7
I-40127 BOLOGNA, Italy
Tel. +39 051 2094509
Fax +39 051 2094510
e-mail: gorrieri@cs.unibo.it

Vice-Chair
C. 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

Secretary
Dr. R. FOCARDI
Universita Ca'Foscari di Venezia
Dipartimento di Informatica
Via Torino 155
I-30172 MESTRE, Italy
Tel. +39 041 2908438
Fax +39 041 2908419
e-mail: focardi@dsi.unive.it

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

AU	C. Boyd	GB	S. Schneider	US	J. Guttman
BE	G. Leduc	IE	S. Foley	US	J. Millen
CH	U. Maurer	IL	Y. Moses	US	J. Mitchell
FR	D. Bolignano	IT	P. Degano	US	P. Syverson
GB	D. Gollman	SE	B. Jonsson	US	R. Yahalom
GB	G. Lowe	US	M. Abadi	US	M. Yung
GB	P. Ryan	US	L. Gong		

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

Chair
Prof. A. HAEBERER, AR
The United Nations Univ.
UNU/IIST
Casa Silva Mendes
Estrada do Engenheiro Trigo 4
P.O. Box 3058
MACAO
Tel. +853 712930
Fax +853 712940
e-mail: amh@iist.unu.edu

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

Secretary
Prof. J. E. URBAN, US/IEEE
Arizona State University
College of Eng. and Applied Sciences
Dept. of Computer Science and Eng.
Box 875406
TEMPE, AZ 85287-5406
USA
Tel. +1 480 965 3374
Fax +1 480 965 2751
e-mail: joseph.urban@asu.edu

URL: http://www.ifip-tc2.org

AT	A. Min Tjoa	FI	R. Kurki-Suonio	NO	A.J. Berre
BG	A. Eskenasi	FR	J-F. Perrot	NL	J. van Katwijk
CH	A. Strohmeier	GB	B. Nuseibeh	PT	A.M.F Cadete
CN	J. Wei	GR	G. Pangalos	PL	P. Dembinski
CZ	M. Kretinsky	HU	M. Biro	SE	J. Bosch
DE	E-R. Olderog	IL	P. Shoval	SI	T. Mohoric
DE	M. Paul	IN	S.K. Pillai	SK	L. Molnar
DK	J. Steensg.-Madsen	IT	U. De Carlini	US	L. Bass (ACM)
ES	F. Saltor	JP	K. Kakehi	ZA	J. Bishop

ex-officio members: WG Chairs

WG 2.1 (ALGORITHMIC LANGUAGES AND CALCULI)
est. 1962, revised 1963, 1990, 1992

Chair
Prof. L. MEERTENS
Kestrel Institute
3260 Hillview Ave.
PALO ALTO, CA 94304
U.S.A.
Tel. +1 650 493 6871
Fax +1 650 424 1807
e-mail: lambert@kestrel.edu

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

URL: http://www.comlab.ox.ac.uk/oucl/work/jeremy.gibbons/wg21/

BE	R.T. Boute	FR	J.-P. Finance	NL	J. Jeuring
BE	M. Sintzoff	GB	R.S. Bird	NL	C.H.A. Koster
BR	A. Haeberer	GB	C.H. Lindsey	NL	W.L. van der Poel
CA	H.J. Boom	GB	O. de Moor	NL	S.D. Swierstra
CA	J. Desharnais	GB	C. Morgan	US	J.M. Boyle
CA	E. Hehner	GB	T. Maibaum	US	R.B.K. Dewar
CA	P.R. King	GB	C. Runciman	US	M. Feather
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DE	B. Moeller	IT	A. Pettorossi	US	A. Liu
DE	H. Partsch	JP	E. Wada	US	D. Smith
DE	M. Paul	NL	R. Backhouse	US	R. Uzgalis
DE	P. Pepper	NL	R.T. Boute	US	D.S. Wile
DE	B. von Karger				

WG 2.2 (FORMAL DESCRIPTION OF PROGRAMMING CONCEPTS)
est. 1965, revised 1991

Chair
Prof. E.R. OLDEROG
Universitaet Oldenburg
Fachbereich 10, Informatik
Postfach 2503
D-26111 OLDENBURG, Germany
Tel. +49 441 798 2439
Fax +49 441 798 2965
e-mail: olderog@informatik.Uni-oldenburg.de

Secretary
Dr. A. TARLECKI
Warsaw University
Institute of Informatics
ul. Banacha 2
PL-02097 WARSAW, Poland
Tel. + 48 22 658 3165
Fax: +48 22 658 3164
e-mail: tarlecki@mimuw.edu.pl

URL: http://wwwat.mimuw.edu.pl/~tarlecki/wg22/

CA	P. Panangaden	FR	D. Sangiorgi	JP	M. Sato
DE	M. Broy	IL	A. Pnueli	NL	F. de Boer
DE	J. Esparza	IT	E. Astesiano	NL	P. de Roever
DE	S. Merz	IT	E. Boerger	PL	W. Penczek
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DK	D. Bjoerner	IT	F. Honsell	US	W.R. Cleaveland II
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DK	A. Ravn	IT	R. de Nicola	US	C. Palamidessi
FR	P. Darondeau	JP	S. Igarashi	US	S. Smolka

WG 2.3 (PROGRAMMING METHODOLOGY) est. 1969, revised 1991

Chair
Dr. N. SHANKAR
SRI International
MS EL256
333 Ravenswood Avenue
MENLO PARK,
CA 94025-3493, U.S.A.
Tel. +1 415 859 5272
e-mail: shankar@csl.sri.com

Vice-Chair
Dr. C. MORGAN
Computing Lab.
Wolfson Bldg
Parks Road
Oxford OX1 3QD, U. K.
Tel. +44 1865 283507
Fax +44 1865 273839
e-mail: carroll.morgan@comlab.ox.ac.uk

Secretaries
Prof. E. HEHNER
Univ. of Toronto
Dept. of Computer Science
10 King's College Road
TORONTO, ON M5S 3G4,
Canada
Tel. +1 416 978 6026
Fax +1 416 978 1931
e-mail: hehner@cs.utoronto.ca

Dr. J. HORNING
Strategic Techn.& Arch.Res.Lab.
InterTrust Techn. Corp.
460 Oakmead Parkway
SUNNYVALE, CA 94086
U.S.A.
Tel. +1 408 222 6171
Fax +1 408 222 6144
e-mail: work@horning.net

URL: http://www.csl.sri.com/~shankar/IFIP-WG2.3

AU	I. Hayes	GB	M.M. Lehman	US	R. Leino
BE	M. Sintzoff	GB	A. McIver	US	W.M. McKeeman
DE	M. Broy	NO	O.-J. Dahl	US	M.D. McIlroy
DK	D. Bjoerner	PL	W.M. Turski	US	K. McMillan
FR	P. Cousot	US	R.M. Balzer	US	J. Misra
FI	R.J. Back	US	E. Cohen	US	G. Nelson
FI	J.von Wright	US	E.W. Dijkstra	US	B. Pierce
GB	P. Henderson	US	D.J. Gries	US	J. Rao
GB	C.A.R. Hoare	US	J.V. Guttag	US	J.C. Reynolds
GB	M.A. Jackson	US	D. Jackson	US	D.T. Ross
GB	C. Jones	US	B.W. Lampson	US	F.B. Schneider
				US	P. Zave

WG 2.4 (SOFTWARE IMPLEMENTATION TECHNOLOGY) est. 1973, revised 1991, 1992, 2000

Chair
Prof. E. PLOEDEREDER
Universitaet Stuttgart
Institut fuer Informatik
Breitwiesenstr. 20-22
DE-70565 STUTTGART
Germany
Tel. +49 711 7816 322
Fax +49 711 7816 380
e-mail: ploedere@informatik.uni-stuttgart.de

Secretary
Dr. M. 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

URL: http://csr.uvic.ca/~wg24

AU	J. Gough	DE	W. Zimmermann	US	V.P. Heuring
CA	J.R. Cordy	IT	V. Ambriola	US	M.E. Hopkins
CA	R.N. Horspool	NO	R. Conradi	US	P. Levy
DE	G. Goos	NL	W.J. Toetenel	US	C.R. Morgan
DE	S. Jaehnichen	NL	B. Watson	US	J. Nestor
DE	U. Kastens	PL	J. Nawrocki	US	J.M. Newcomer
DE	J. Knoop	SE	U. Assmann	US	F. Tip
DE	R. Landwehr	SE	P. Fritzson	US	W.M. Waite
DE	C. Lewerentz	US	L.R. Carter	ZA	J.M. Bishop
DE	A. Poetzsch-Heffter	US	M. Franz	ZA	K.J. MacGregor
DE	N. Serbedzija				

WG 2.5 (NUMERICAL SOFTWARE) est. 1974, revised 1991

Chair
Dr. R. 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
Dr. Pieter W. HEMKER
CWI, Centrum voor Wiskunde en Informatica
Kruislaan 413
NL-1098 SJ AMSTERDAM
The Netherlands
Tel. +31 20 592 4108
Fax +31 20 592 4199
e-mail: p.w.hemker@cwi.nl

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

URL: http://www.nsc.liu.se/wg25/

AT	U. Langer	JP	T. Tsuda	US	E.N. Houstis
BE	R. Cools	NL	T. J. Dekker	US	C. Lawson
CA	W.M. Gentleman	NO	P. Gaffney	US	G. Paul
DE	U. Kulisch	RU	Y. I. Shokin	US	J. Pool
DE	S. M. Rump	SE	B. Einarsson	US	J.R. Rice
DE	W. Walter	SE	M. Thune	US	B.T. Smith
FR	F. Chaitin-Chatelin	US	T.J. Aird	US	W. van Snyder
GB	B. Ford	US	I. Gladwell	US	P.T.P. Tang
HK	M. Mu	US	R.J. Hanson	US	M.Vouk
JP	M. Shimasaki				

WG 2.6 (DATABASE) est. 1974, revised 1985, 1991

Chair	**Vice-Chair**	**Secretary**
Prof. S. SPACCAPIETRA Ecole Polytechnique Féderale de Lausanne Dept. d'Informatique Lab. de Bases de Donnees, EPFL Ecublens CH-1015 LAUSANNE Switzerland Tel. +41 21 6935210 Fax +41 21 6935195 e-mail: stefano.spaccapietra@epfl.ch	Prof. K. ABERER Ecole Polytechnique Féderale de Lausanne LSIR EPFL-DSC CH-1015 LAUSANNE, Switzerland Tel. +41 21 6934679 Fax +41 21 6938115 e-mail: karl.aberer@epfl.ch	Prof. K. ABERER Ecole Polytechnique Féderale de Lausanne LSIR EPFL-DSC CH-1015 LAUSANNE, Switzerland Tel. +41 21 6934679 Fax +41 21 6938115 e-mail: karl.aberer@epfl.ch

URL: http://www.informatik.uni-ulm.de/dbis/IFIP-WG2.6/IFIP26.html

AU	T. Dillon	DE	W. Klas	KR	K.Y. Whang
BE	R. de Caluwe	DE	E.J. Neuhold	NL	P. Apers
BE	R. Meersman	DE	M.H. Scholl	NL	M. Kersten
BE	O. de Troyer	DE	R.Studer	SE	T. Risch
CA	J. Han	ES	A. Illarramendi	US	M. Rusinkiewicz
CH	K. Dittrich	ES	F. Saltor	US	T.B. Steel, Jr.
DE	P. Fankhauser	IT	T. Catarci		

WG 2.7/13.4 (USER INTERFACE ENGINEERING) est. 1975, revised 1987, 1991

Chair	**Vice-Chair**	**Secretary**
Dr. R. KAZMAN Software Eng. Institute Carnegie Mellon University 5000 Forbes Ave. PITTSBURGH, PA 15213, U.S.A. Tel. +1 412 268 1588 Fax +1 412 268 5758 e-mail: kazman@sei.cmu.edu	Dr. L. NIGAY University of Grenoble CLIPS-IMAG B.P.53 F-38041 GRENOBLE CEDEX 9, France Tel. +33 4 76514440 Fax +33 4 76446675 e-mail: laurence.nigay@imag.fr	Dr. N. GRAHAM Queen's University Dep. of Computing and Inf. Sciences Kingston ONTARIO, Canada Tel. +1 613 5336526 Fax +1 613 533 6513 e-mail: graham@cs.queensu.ca

URL: http://www.tls.cena.fr/guestroom/ifipwg2.7

CA	G. Phillips	FR	S. Chatty	GB	L. Watts
DE	J. Roth	FR	J. Coutaz	IT	F. Paterno
DE	H.G. Stiegler	FR	P. Palanque	US	L.J. Bass
DE	C. Unger	GB	G. Cockton	US	A. Chabert
DK	M. Harning	GB	A. Dix	US	P. Dewan
FR	R. Bastide	GB	I. Newman	US	R. Little
FR	M. Beaudouin-Lafon	GB	C. Roast	US	D. Salber

WG 2.8 (FUNCTIONAL PROGRAMMING) est. 1987, revised 1991

Chair
Prof. J. LAUNCHBURY
13075 SW Davies RD
BEAVERTON, OR 97008
USA
Tel. +1 503 641 5498
e-mail: jl@cse.ogi.edu

Secretary
Dr. E. MEIJER
Department of Computer Science
Utrecht University
PO Box 80089
NL-3508 TB UTRECHT
Netherlands.
Tel. +31 30 2533336
e-mail: emeijer@microsoft.com

URL: http://www.md.chalmers.se/Misc/WG2.8

CA	W. Burton	GB	J.E. Stoy	US	R. Harper
CH	M. Odersky	GB	D.A. Turner	US	P. Hudak
DE	R. Hinze	IT	C. Boehm	US	M. Jones
DE	P. Thiemann	NL	M.J. Plasmeijer	US	R.B. Kieburtz
DK	N. Jones	SE	L. Augustsson	US	P. Lee
DK	F. Henglein	SE	J. Hughes	US	D.B. MacQueen
FR	X. Leroy	SE	T. Johnsson	US	G. Morrisett
GB	R.S. Bird	SE	M. Sheeran	US	R. Nikhil
GB	C. Clack	US	A. Aiken	US	C. Okasaki
GB	J.T. O'Donnell	US	O. Arvind	US	O. Shivers
GB	P. Henderson	US	R. Cartwright	US	S. Singh
GB	S.L. Peyton-Jones	US	J. Backus	US	P. Wadler
GB	C. Runciman	US	J.B. Dennis	US	J. Williams
GB	M. Sheeran	US	C. Elliott		

WG 2.9 (SOFTWARE REQUIREMENTS ENGINEERING) est. 1993

Chair
Prof. A. FINKELSTEIN
University College London
Dept. of Computer Science
Gower Street
G20, Pearson Bldg.
LONDON WC1E 6BT, UK
Tel. +44 20 7679 7293
Fax +44 20 7387 1397
e-mail:
a.finkelstein@cs.ucl.ac.uk

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

URL: http://www.cis.gsu.edu/~wrobinso/ifip2_9/

BE	A. van Lamsweerde	GB	J. Kramer	US	M. Feblowitz
BR	J. Leite	GB	B. Nuseibeh	US	S. Fickas
CA	J. Atlee	GB	A. Sutcliffe	US	S.J. Greenspan
CA	D. Berry	IT	C. Ghezzi	US	C. Heitmeyer
CA	J. Mylopoulos	LU	E. Dubois	US	D. Jackson
DE	M. Jarke	US	A.I. Anton	US	C. Potts
DE	K. Pohl	US	S. Easterbrook	US	P. Zave
GB	M. Jackson	US	M. Feather		

WG 2.10 (SOFTWARE ARCHITECTURE) est. 2000

Chair
Ms. Ch. HOFMEISTER
Lehigh University
Electrical Engineering and Computer
Science Department
Packard Lab
19 Memorial Drive West
BETHLEHEM, PA 18015
U.S.A.
Tel. +1 610 758 4103
fax +1 610 758 6279
e-mail: hofmeister@cse.lehigh.edu

Secretary
Dr. P. KRUCHTEN
Rational Software Corp.
638-650 West 41st Avenue
VANCOUVER, B.C. V5Z 2M9
Canada
Tel. +1 604 269 3204
Fax +1 604 263 5350
e-mail: pbk@rational.com

CA	W.M. Gentleman	NL	M. Boasson	US	P. C. Clements
FI	A. Ran	NL	H. Obbink	US	D. Perry
GB	J. Kramer	US	B. W. Boehm	US	M. M. Shaw

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.

Chair
Prof. J. WIBE, NO
Labil
NTNU - Dragvoll, Pav. B
NO-7491 TRONDHEIM
Norway
Tel. +47 735 98367
Fax +47 735 96637
e-mail: jan.wibe@plu.ntnu.no

Vice-Chair
Prof. R. MOREL, CH
CPTIP
Case Postale 3144
CH-1211 GENEVA 3,
Switzerland
Tel. +41 22 3180530
Fax: +41 22 3180535
e-mail:
raymond.morel@tecfa.unige.ch

Secretary
Ms. A. McDOUGALL, AU
University of Melbourne
Dept. Sc & Maths Education
6 Riverside Drive
EAST KEW, VIC 3102
Australia
Tel. +61 3 8344 9573
Fax +61 3 8344 8739
e-mail:
a.mcdougall@edfac.unimelb.edu.au

URL: http://wwwedu.ge.ch/cptic/prospective/projets/ifip/

AR	H. Azinian	FR	M. Grandbastien	PT	F. Ramos
AT	H. Schauer	GR	A. Dimitrakopoulou	SE	B. Lindahl
BE	W. Baute	HU	A. Karpati	SG	L.H. Wong
BG	R. Nikolov	IL	D. Millin	SI	V. Rajkovic
BR	R. Wazlawick	IN	P.D. Vyavahare	SK	I. Kalas
CN	X. Li	IS	A. Kristjansdottir	TH	S. Charmonman
CZ	J. Klvana		(Obs)	TN	T. Hafaied
DE	S. Schubert	IT	V. Midoro	US	J. Turner (ACM)
DK	P. Bollerslev	JP	H. Ohiwa	US	W. King (IEEE)
EG	A.R. El Nour	KR	Ch.-M. Park	ZA	P. Waker
ES	A. del Moral	NL	A. Hacquebard	ZW	A. Sithole
FI	M.Sinko	NO	J. Wibe		
		PL	R. Tadeusiewicz		

ex-officio members: WG Chairs

WG 3.1 (INFORMATICS AND ICT IN SECONDARY EDUCATION)
est. 1966, revised 1998

Chair
Prof. D. WATSON
School of Education
King's College London
Cornwall House Annex
Waterloo Road
LONDON SE1 9NN
U.K.
Tel. +44 207 848 3106
Fax +44 207 848 3182
e-mail: deryn.watson@kcl.ac.uk

Vice-Chair
Drs. P. HOGENBIRK
Inspectorate of Education
PO Box 10048
NL-8000 GA ZWOLLE
Netherlands
e-mail: p.hogenbirk@owinsp.nl

URL: http://rice.edn.deakin.edu.au/IFIP/ifip31.html

AR	H. Azinian	CN	Q. Chen	GB	D. Squires
AT	E. Neuwirth	DE	U. Bosler	GB	D.J. Tinsley
AT	H. Schauer	DE	K.D. Graf	IS	A. Kristjansdottir
AU	J. Hammond	DE	I. Kerner	IT	R.M. Bottino
AU	A. McDougall	DE	S. Schubert	IT	E. Lemut
AU	P.Nicholson	DE	W. Weber	MY	Z.W. Abas
BE	H. Christiaen	DK	P. Bollerslev	NL	A. Hartsuijker
BE	Ch. Duchâteau	ES	F. Ruiz Tarrago	NL	J. Moonen
BE	A. Libboton	FI	M. Sinko	NL	T. van Weert
BE	G. Schuyten	FR	B. Cornu	NO	J. Wibe
BG	B. Gradinarova	FR	B. Dumont	SE	K. Ekmark
BR	U. D'Ambrosio	FR	H. Godinet	US	R.M. Aiken
CA	B.R. Hodgson	FR	J. Hebenstreit	US	G.L. Engel
CA	R.S. McLean	FR	J-M. Laborde	US	V. Proulx
CH	Y. Buettner	GB	D. Brown	US	H.G. Taylor
CH	R. Morel	GB	D. Johnson	ZA	P. Waker
CL	S. Lagos	GB	B. Samways	ZW	S. Gumbo

WG 3.2 (INFORMATICS AND ICT IN HIGHER EDUCATION)
est. 1968, revised 1981, 1989, 1998

Chair
Prof. A.J. TURNER
2024 Westview Point
SENECA, SC 29672-2436
U.S.A.
Tel. +1 864 882 7509
Fax +1 864 656 0145
e-mail:
turner@cs.clemson.edu

Vice-Chair
Prof. J.M. HUGHES
University of Technology
School of Computer Sc.
P. O. Box 123
BROADWAY, NSW 2007
Australia
Tel. +61 2 9514 1344
Fax +61 2 9514 1898
e-mail: hughes@socs.uts.edu.au

URL: http://poe.netlab.csc.villanova.edu/ifip32/

AU	J. Hughes	FR	M.Grandbastien	NL	T.J. van Weert
AT	H. Schauer	GB	G. Davies	PL	J. Zabrodzki
BE	R. de Caluwe	IL	B.Z. Barta	US	R.M. Aiken
BE	C. Duchateau	JP	N. Takahasi	US	A. Bork
BR	R. S. Wazlawick	NL	P. Fisser	US	L. Cassel
CH	B. Levrat	NL	F. Mulder	US	S. Franklin
DE	W. Brauer				

WG 3.3 (RESEARCH ON EDUCATION APPLICATIONS OF INFORMATION TECHNOLOGIES)
re-est. 1988

Chair
Dr. N. E. DAVIS
Iowa State University
Center for technology in
Learning and Teaching
N108 Lagomarcino Hall|
AMES, Iowa IA 50011-3192,
USA
Tel. +1 515 294 5596
Fax +1 515 294 6206
e-mail: nedavis@iastate.edu

Vice-Chair
Dr. R.M. BOTTINO
C.N.R. Istit.Mathem.Applic.
Via de Marini 6
I-16149 GENOVA, Italy
Tel. +39 010 6475676
Fax +39 010 6475660
e-mail: bottino@ima.ge.cnr.it

URL: http://telematics.ex.ac.uk/IFIP/

AU	G. Cumming	DK	J. Nielsen	IT	P. Rocchi
AU	C. Dowling	ES	B. Fernandez-Manjon	NL	B. Collis
AU	M. Wild	ES	A. Fernandez-Valmayor	NL	J. Moonen
BE	E. De Corte	FI	P.J. Hietala	NL	B. Zwaneveld
BG	D. Dicheva	FI	J. Multisilta	NZ	J. Tiffin
BG	I. Stanchev	GB	M. Cox	RU	S. Christochevsky
CO	A.-H. Galvis-Panqueva	GB	R.E.J. Lewis	US	R. Aiken
DK	L. Dirckinck-Holmfeld	IL	N. Zehavi	US	C. Quinn
DK	J.A. Jensen				

WG 3.4 (IT-PROFESSIONAL AND VOCATIONAL EDUCATION IN INFORMATION TECHNOLOGY) est. 1971, revised 1983, 1989, 1995

Chair
Prof. M. RUOHONEN
Univ. of Tampere
Dept. of Computer & Inf. Sciences
Kanslerinrinne 1
FIN-33014 TAMPERE, Finland
Tel. +358 3 2156 111
Fax +358 3 2156 070
e-mail: mr@cs.uta.fi

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

URL: http://www.cs.uta.fi/ifip/wg3.4/

AT	H. Schauer	DK	J. Andersen	JP	S. Otsuki
AU	J. Hammond	FI	L. Fontell	JP	T. Kado
AU	P. Juliff	IT	D. Ponta	NL	J.W. Houben
AU	A. Tatnall	IL	B. Barta	SG	A. Goh
DE	G. Kuhlmann	IL	D. Millin	US	J.C. Little
DE	M. Toepel	IN	A. Roy	ZW	A. Sithole

WG 3.5 (INFORMATICS IN ELEMENTARY EDUCATION) est. 1983

Chair
Mr. S. ROSVIK
Giske Skulestyre
N-6050 VALDEROEY
Norway
Tel. +47 701 82005
Fax +43 701 81286
e-mail: sindre@mimer.no

Vice-Chair
Dr. T. DOWNES
University of Western Sydney
School of Education & Early Childhood Studies
PENRITH SOUTH DC, NSW 1797
Australia
Tel. +61 2 9772 6273
Fax +61 2 9772 6738
e-mail: t.downes@uws.edu.au

URL: http://www.asn-linz.ac.at/tc3/

AT	A. Knierzinger	FR	R.L. Cohen	SE	A. Lindblom
AT	E. Neuwirth	FI	M.Siekkinen	SE	B. Lindstroem
BE	G. Schuyten	GB	D. Benzie	SE	B. Qvarsell
BG	R. Nikolov	GB	D. Passey	SK	I.Kalas
BG	E. Sendova	GB	P. Wood	US	M. Dickson
BR	A. Simao	GB	B. Somekh	US	B.J. Ferrucci
CA	R.G. Ragsdale	GR	C.Kynigos	US	M.G. Handler
CH	R.Rinta-Filppula	HU	M. Turcsanyi-Szabo	US	J. Hanor
DE	K.-D. Graf	IE	T. O'Brian	US	D.H. Harkins
DE	R. Lauterbach	IL	Y.J. Katz	US	R.A. Heller
DE	H. Loethe	IL	B. Offir	US	H.Jobe
DE	W.Weber	IN	R.M. Bhatt	US	G.Marshall
DK	P. Bollerslev	IT	E.Lemut	US	D. Martin
DK	E. Schmidt	NO	J.P. Stroemsheim	US	M. Niess
DK	N. Tovgaard	SE	L. Appelberg	US	J. Wright
FR	E.Bruillard				

WG 3.6 (DISTANCE LEARNING) est. 1987

Chair
Prof. G. DAVIES
The Open University
Mathematics Faculty, Comp.Dept.
Walton Hall
MILTON KEYNES,
MK7 6AA, U.K.
Tel. +44 1908 652 680
Fax +44 1908 652 140
e-mail: g.davies@open.ac.uk

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

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

AT	H. Maurer	DK	E. Dam	HU	M. Turcsanyi-Szabo
AT	E. Neuwirth	DK	L. Dirckinck-Holmfeldt	IT	R. Lisco
AT	E. Riedling	DK	M. Eriksen	IT	V. Midoro
AU	M. Beazley	DK	E. Schmidt	IS	L. Stefansdottir
AU	C. Dowling	ES	S. Dormido	NL	B. Collis
AU	A. Forster	ES	M. Llamas	NL	F.H.D. Gastkemper
AU	V. Lowery	ES	M.L. Nistal	NL	F. de Vries
AU	E. Stacey	ES	J.C. i Prims	NL	P. de Vries
AU	M. Wild	ES	F. Verdejo	NL	W. van Veen
BE	B. Charlier	FI	E. Pekkarinen	NO	B. Ask
BG	R. Nikolov	FI	J. Pulkkinen	NO	M.F. Paulsen
BG	I. Nikolova	FI	M. Sinko	NO	H. Sponberg
BG	I. Stanchev	FR	M. Arnaud	NO	J.P.Stromsheim
BR	A.S. Neto	FR	A. Derycke	RU	A.V. Moskaev
CA	F. Henri	FR	P. Vincent	SE	S. Gerdare
CA	G. Paquette	FR	M. Vivet	SE	B. Lindahl
CH	B. Levrat	GB	Ch. Abbott	SE	L.-E. Nilsson
CH	R. Morel	GB	D. Brown	UA	P. Serdiukov
CH	R. Rinta-Filippula	GB	N.E. Davis	US	R.M. Aiken
CZ	Z. Lustigova	GB	H. Milner	US	S. Charp
CZ	S. Zelenda	GB	B. Samways	US	C. Fulford
DE	J. Wedekind	GB	S. Wheeler	US	V. Warner
DK	K. Anttila	HU	T.A. Szabo		

WG 3.7 (INFORMATION TECHNOLOGY IN EDUCATIONAL MANAGEMENT) est. 1996

Chair
Dr. A. FUNG
SAMS T&R Unit
Baptist University
Kowloon Tong, Kowloon
HONG KONG SAR, China
Tel. +852 2339 5679
Fax +852 2794 3329
e-mail: alexfung@hkbu.edu.hk

Vice-Chair
Dr. A. VISSCHER
University of Twente
Fac.of Educ. Science & Technology
PO Box 217
NL-7500 AE ENSCHEDE
Netherlands
Tel. +31 53 4893609
Fax +31 53 4893791
e-mail: visscher@edte.utwente.nl

URL: http://ifip-item.hkbu.edu.hk

AU	G. Burton	GB	B. Samways	NZ	P. Nolan
AU	B. Davey	IL	B. Barta	US	F. Frank
AU	A. Tatnall	IL	Y. Gev	US	C. Fulmer
AU	P. Juliff	IL	M. Telem	US	D. Spuck
FI	T. Paturi	NO	H. Yndestad	US	R. Taylor
GB	D. Keenliside	NP	H. Shrestha	US	B. Wholeben
GB	I. Selwood				

TC 5 (COMPUTER APPLICATIONS IN TECHNOLOGY) est. 1970

AIMS
To promote and coordinate the exchange of information on computer applications in technology.
SCOPE
includes all aspects of computer applications in technology, i.e., in the research, design, manufacture, operation and control of products and physical systems; it also includes the investigation of related programming methods. Some non-exclusive examples are:

- control computers;
- computers in manufacturing including numerical control and machine tools;
- computer applications in design, including interactive graphics;
- simulation, and analog and hybrid computer applications;
- computers for traffic control;
- problem-oriented languages;
- interactive graphics.

Chair	**Vice-Chair**	**Secretary**
Prof. G. J. OLLING (ACM)	Dr. G.L. KOVAKS, HU	Prof. M. WOZNY, USA
Daimler Chrysler Corp.	Hungarian Academy of Sciences	Rensselaer Polytechn.Inst.
CAE/CAD/CAM Res.& Dev.	CIM Research Laboratory,	Ctr. f. Adv. Techn.
800 Chrysler Drive East	Comp. and Autom. Research	CII 8015
AUBURN HILLS,	Institute	110 8th Street
MI 48326-2757, U.S.A.	Kende u. 13-17	TROY, NY 12180-3590, U.S.A.
Tel. +1 248 576 2788	HU-1111 BUDAPEST, Hungary	Tel. +1 518 276 2898
Fax:+1 248 576 2029	Tel. +36 1 209 6143	Fax +1 518 276 4897
e-mail:	Fax: +36 1 466 7503	e-mail: wozny@cat.rpi.edu
gjo@daimlerchrysler.com	e-mail: gyorgy.kovaks@sztaki.hu	

AT	R. Goebl	FR	R. Soenen (Ind.M.)	PL	T. Czachorski
AT	P. Kopacek (Ind.M.)	FR	G. Doumeingts	PT	L.M. Camarinha-Matos
CH	E.M. Gelle	GB	R.A. Earnshaw	SE	P. Kjellberg
CN	R. Gan	IE	J. Browne	SG	R. Gay
CZ	M. Jirina	IL	G. Halevi	SI	I. Rozman
DE	D. Kochan (Ind.M.)	IT	B. Falcidieno	SK	I. Plander
DK	P. Falster	IN	S.P. Mudur	US	M.B. McGrath (ACM)
ES	J. Borda	JP	F. Kimura	US	J. Vlietstra (Ind.M.)
FI	R. Smeds	MX	N.L. Rovira (Obs.)	US	R. Waxman (IEEE)

ex-officio members: WG Chairs

WG 5.2 (COMPUTER-AIDED DESIGN) est. 1972, revised 1986

Chair
Prof. U. CUGINI
Politecnico di Milano - Bovisa
Dipt. di Meccanica
Via La Masa, 34
IT-20156 MILANO, ITALY.
Tel. +39 02 2399 8257
Fax +39 02 2399 8202
e-mail: umberto.cugini@polimi.it

URL: http://www.cs.wpi.edu/~dcb/WG5.2/

AU	J. Gero	GB	E. Warman	NL	P. ten Hagen
AU	A. Sambura	HU	J. Hermann	NL	T. Otker
DE	J. Encarnacao	IL	K. Preiss	NO	F. Lillehagen
DE	H. Grabowski	IL	M. Shpitalni	RU	O. Semenkov
DE	F. Krause	IN	P. Mudur	SE	E. Tyugu
FI	M. Mantyla	IT	S. Ansaldi	SE	T. Kjellberg
FR	B. David	IT	G. Jacucci	US	D. Brown
FR	R. Geudj	IT	G. Valle	US	S. Finger
FR	J. Latombe	JP	F. Kimura	US	H. McLaughlin
FR	J. Mermet	JP	T. Tomiyama	US	C. Rosenthal
GB	T. Holden	JP	H. Yoshikawa	US	J. Schneider
GB	K. MacCallum	NO	K. Bo	US	M. Waldron
GB	M. Pratt	NL	W. Loeve	US	M. Wozny
GB	M. Sabin				

WG 5.3 (COMPUTER-AIDED MANUFACTURING) est. 1972, revised 1985, 1986

Chair
Prof. F.J. van HOUTEN
University of Twente
Dept. of Mechanical Engineering
Laboratory of Prod. and Design Eng.
PO Box 217
NL-7500 AE ENSCHEDE
Netherlands
Tel. +31 53 489 2549
Fax +31 53 489 4783
e-mail: f.j.a.m.vanhouten@wb.utwente.nl

Vice-Chair
Prof. J. JACUCCI
University of Trento
D.I.S.A.
Lab.of Inf.& Comm. Techn.
Via Zeni 8
I-38068 ROVERETO, Italy
Tel. +390 461 882583
Fax +390 461 881971
e-mail: gianni.jacucci@lii.unitn.it

Secretary
Dr. P. BERTOK
Royal Melbourne Inst.of Techn.
Dept.of Comp. Science
Bundoora Campus
PO Box 71
BUNDOORA, VIC 3083
Australia
Tel. +61 3 9407 6124
Fax +61 3 9407 6139
e-mail: p_bertok@rmit.edu.au

URL: http://goanna.cs.rmit.edu.au/~pbertok/ifip/w.g.5-3/wg53.htm

AU	L. Nemes	FR	M. Veron	NO	K. Wang
BR	R. Rabelo	GB	J.R. Crookall	PT	L.M. Camarinha-Matos
BY	O.I. Semenkov	HU	A. Markus		
CA	J.-C. Cuilliere	IL	G. Halevi	SE	T. Kjellberg
CH	H.W. Butz	IT	R.C. Michelini	SG	C.Chee Kai
DE	D. Kochan	JP	T. Kaihara	US	D. Ben-Arieh
DE	F.-L. Krause	JP	F. Kimura	US	S.R. LeClair
DE	A. Storr	JP	T. Sata	US	E. Merchant
DK	G.K. Christensen	KR	B.K. Choi	US	S.Y. Nof
FI	M. Mantyla	NL	H. Afsarmanesh	US	G.J. Olling
FR	J.P. Crestin	NO	Z. Deng	US	F.E. Plonka
FR	R. Soenen	NO	L. Estensen		

WG 5.5 (COOPERATION INFRASTRUCTURE FOR VIRTUAL ENTERPRISES AND ELECTRONIC BUSINESS – "COVE") provisionally est. 2001

Chair
Prof. L. CAMARINHA-MATOS
Uninova
Fac. de Ciencias & Techn.
Quinta da Torre
P-2825 MONTE CAPARICA,
Portugal
Tel. +351 21 2948 517
Fax +351 21 2941 253
e-mail: cam@uninova.pt

BR	R. Rabelo	DE	K. Kosanke	MX	A. Molina
BR	R. Vallejos	DE	V. Ouzounis	NL	H. Afsarmanesh
CA	W. Shen	FR	F. Vernadat	PT	L. Osorio
CN	Y. Chen	IT	R. Michelini	PT	J. Sousa
DE	A. Kampker	JP	T. Kahiara	TR	A. Dogac
DE	B. Katzy	MO	T. Janowski	US	H. Goranson

WG 5.6 (MARITIME INDUSTRIES) est. 1974

Chair
Dr. K. 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	J. Brodda	JP	T. Koyama

WG 5.7 (INTEGRATION IN PRODUCTION MANAGEMENT) est. 1978, revised 1986, 1989, 2000

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

Vice-Chairs
for Europe:
Dr. K. MERTINS
IPK Berlin
Pascalstr. 8-9
D-10789 BERLIN, Germany
Tel. +49 30 314 25662
Fax +49 30 393 2503
e-mail: kai.mertins@ipk.fhg.de

for America:
Mr. C.R. McLEAN
Natl. Inst.of Stand. & Techn.
Bldg. 220/Room A-127
GAITHERSBURG,
MD 20899-0001, U.S.A.
Tel. +1 301 9753511
Fax +1 301 2589749
e-mail: mclean@cme.nist.gov

Secretary
Prof. J. RIIS
Univ. of Aalborg
Dept.of Production
Fibigerstraede 13
DK-9220 AALBORG, Denmark
Tel. +45 9635 8944
Fax +45 98 153030
e-mail: riis@iprod.auc.dk

AT	J. Dorn	FR	G. Doumeingts	JP	H. Tamura
AU	R.M. Kerr	FR	J. Favrel	JP	H. Yoshikawa
BE	G. Basaglia	GB	U.S. Bititci	KR	M. Kang
BE	D. Beeckman	GB	A.S. Carrie	NL	J. Pels
BE	P. Lecocq	GB	S. Childe	NL	J.E. Rooda
BR	C. Walter	GB	C. Irgens	NL	J.Wortmann
CH	A. Büchel	GB	H. Jagdev	NL	W.H.M. Zijm
CH	P. Schoensleben	GB	K. Kochhar	NO	B. Andersen
CN	R. Gan	GB	D. Little	NO	A. Rolstadås
CN	G.X. Yang	GR	I.A. Pappas	NO	J.O. Strandhagen
DE	S. Augustin	GR	I. Tatsiopoulos	PL	E.T. Radosinski
DE	B.E. Hirsch	HU	E. Szelke	PT	T. Almeida Fordesi
DE	V. Hornung	ID	I. Djodikusumo	SE	R.W. Grubbstrom
DE	H. Huebner	ID	S. Razali	SE	K. Lund
DE	J.-P. Lechner	IE	J. Browne	SE	P. Lundell
DE	H.-P. Wiendahl	IL	G. Halevi	SE	J. Olhager
DE	H. Wildemann	IT	M. Garetti	US	G.K. Hutchinson
DE	G. Zuelch	IT	A. Villa	US	A. Kusiak
DK	P. Falster	JP	S. Fujii	US	C.L. Moodie
DK	J. Johansen	JP	M. Fuyuki	US	N. Sadeh
ES	J. Borda-Elejabarrieta	JP	R. Gundling	US	J.P. Shewchuk
		JP	I. Inoue	US	K.E. Stecke
ES	J.I. Goitia	JP	N. Okino	US	R. Storch
FI	E. Eloranta	JP	K. Takeda	US	M. Williamson
FI	R. Smeds				

WG 5.10 (COMPUTER GRAPHICS AND VIRTUAL WORLDS) est. 1987, revised 1994

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

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

AT	H. Maurer	GB	F.R.A. Hopgood	PT	J.C. Teixeira
BG	S. Maleshkov	GB	S. Laflin	RU	S. Klimenko
BE	E. Flerackers	HU	M. Bathor	SE	L. Kjelldahl
BR	L.P. Magalhaes	IN	S.P. Mudur	SG	T-S. Chua
CH	N. Magnenat-Thalmann	IN	Y.N. Shinde	US	H. Asada
		IT	F. Bresciani	US	N. Badler
CH	P. Stucki	IT	G. Faconti	US	P.R. Bono
CH	D. Thalmann	IT	B. Falcidieno	US	S. Carson
CN	J. Shi	IT	L. Moltedo	US	S. Cunningham
CN	Z. Tang	IT	F. Pallavicini	US	G.G. Grinstein
DE	D. Kochan	JP	T. Kunii	US	D.H. House
DE	F. Wolter	JP	Y. Suenaga	US	A. Kaufman
DK	N. Christensen	KR	S-Y. Shin	US	A. Pentland
ES	P. Brunet	MX	G.L. Lastra	US	J. Reinfelds
ES	J. Flaquer	NL	P. ten Hagen	US	L. Rosenblum
FI	M. Mantyla	PT	M.R. Gomes	US	M. Wozny
GB	K. Brodlie				

WG 5.11 (COMPUTERS AND ENVIRONMENT) est. 1991, revised 1992

Chair
Prof. R. DENZER
Saarland State University
for Applied Sciences
Environmental Informatics
Group
Goebenstrasse 40
D-66117 SAARBRUECKEN
Germany
Tel./Fax +49 700 3733 6937
e-mail:
ralf.denzer@enviromatics.org

Vice-Chair
Prof. D.A. SWAYNE
University of Guelph
GUELPH, ON, N1G2W1
Canada
Tel. +1 519 824 4129 3411
Fax +1 519 826 5745
e-mail: dswayne@snowhite.cis.uoguelph.ca

Secretary
Dr. R. ARGENT
University of Melbourne
Dept. of Civil and
Environmental Engineering
Parkville
VICTORIA 3010
Australia
e-mail:
r.argent@civag.unimelb.edu.au

URL: http://www.enviromatics.org

AT	H. Hasenauer	CZ	D. Strnad	IT	G. Guariso
AT	G. Schimak	DE	E. Doberkat	NZ	M. Purvis
AT	W. Pillmann	DE	P. Fischer	SE	R. Carlsson
AU	S. Veitch	DE	R. Guettler	US	J. Alpigini

AU	W. Young	DE	W. Kuntz	US	S. Frysinger
CA	W. Booty	DE	R. Lenz	US	C. Mayfield
CA	K. Brown	DE	R. Pfannkuche	US	N. Quinn
CA	D. Lam	GB	W. Walley	US	D. Russell
CA	A. McMillan				

WG 5.12 (ARCHITECTURES FOR ENTERPRISE INTEGRATION) est. 1995

Chair
Dr. P. BERNUS
Griffith University
School of Computing & Inf.
NATHAN, Queensland 4111
Australia
Tel. +61 7 875 5039
Fax +61 7 875 5051
e-mail: bernus@cit.gu.edu.au

Vice-Chair
Prof. R.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

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

AT	P. Kopacek	ES	L. Basanez	MX	A. Molina Gutierrez
AT	N. Rozsenich	ES	A. Ortiz	NO	Z. Deng
AU	L. Vlacic	FR	V. Chapurlat	PT	J. Ferreira
CA	F. Fadel	FR	D. Chen	RO	M. Avram
CA	M.S. Fox	FR	G. Doumeingts	RO	F. Filip
CA	M. Gruninger	FR	J. Favrel	SG	C.L. Ang
CA	J. Mylopoulos	FR	F. Vernadat	SG	S. Bansal
CA	A. Pardasani	GB	J. Edwards	SI	B. Kalpic
CA	Y. Chen	GB	S.K. Banerjee	US	J. Brosvic
CN	Z. Han	GB	D. Shorter	US	B. Guthridge
DE	C. Bussler	HU	G. Haidegger	US	H. Li
DE	K. Kosanke	HU	G. Kovacs	US	J. Nell
DE	M. Jarke	IE	J. Browne	US	L. Nemes
DE	R. Jochem	IT	M. Garetti	US	J. Nevins
DE	G. Schmidt	JP	Y. Fukuda	US	L. Obrst
DK	H. Molstand	JP	A. Inamoto	US	J. Vlietstra
DK	J. Vesterager	JP	Y. Shibata	US	T. Williams

TC 6 (COMMUNICATION SYSTEMS)

est. 1971, revised 1987 and 1991

AIMS

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

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.

Chair
Prof. A. CASACA, PT
INESC
Rua Alves Redol 9
Apart. 13069
P-1000-029 LISBON, Portugal
Tel.:+351 21 3100233
Fax +351 21 3145843
e-mail: augusto.casaca@inesc.pt

Vice-Chair
Dr. H. RUDIN, CH
Vordere Bergstrasse 1
CH-8942 OBERRIEDEN
Switzerland
Tel. +41 1 7203707
Fax +41 1 7203777
e-mail: hrudin@smile.ch

Secretary
Prof. R. POSCH, AT
Techn.Univ. Graz
Inst.f. Angewandte Inf.
Inffeldgasse 16a
A-8010 GRAZ, Austria
Tel.: +43 316 8735510
Fax +43 316 8735520
e-mail: reinhard.posch@iaik.at

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

AD	M. Nicolau i Vila	FI	V. Hara	OM	A. Al-Naamany
AR	J. Diaz	FR	S. Tohme	PL	A. Grzech
AU	H. Dutton	GB	P.R. Radford	SE	D. Khakhar
BE	A. Danthine	GR	T. Apostolopoulos	SI	J. Bester
BG	K. Boyanov	HU	S. Dibuz	SK	K. Fabian
BR	N. de Souza	IN	S.D. Jha	TH	V. Wuwongse
CA	L. Mason	IT	G. Prati	TN	F. Kamoun
CN	D. Hu	JP	T. Saito	US	A.L. Chapin (ACM)
CZ	J. Slavik	MY	N. Faisal	US	A. Iyengar (IEEE)
DE	O. Spaniol	NL	I. Niemegeers	ZA	K. Koen
DK	V.B. Iversen	NO	F.A. Aagesen	ZW	J.Whiley
ES	R. Puigjaner				

ex-officio members: WG Chairs

WG 6.1 (ARCHITECTURES AND PROTOCOLS FOR DISTRIBUTED SYSTEMS)
est. 1973, revised 1982, 1999, 2000

Chair
Prof. G. LEDUC
Université de Liège, EECS department
Research Unit in Networking (RUN)
Inst.Montefiore, B28
B-4000 LIEGE 1, Belgium
Tel. +32 4 366 2698
Fax +32 4 366 2989
e-mail: guy.leduc@ulg.ac.be

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

AU	K. Raymond	FI	M. Tienari	IT	A. Fantechi
CA	G.V. Bochmann	FR	S. Budkowski	IT	R. Gorrieri
CA	L. Logrippo	FR	A.R. Cavalli	IT	D. Latella
CA	A. Petrenko	FR	M. Diaz	JP	T. Higashino
CA	J. Slonim	FR	R. Groz	KR	M. Kim
CH	R. Guerraoui	FR	E. Najm	NL	E. Brinksma
CH	H. Rudin	GB	G. Blair	PL	P. Dembinski
DE	D. Hogrefe	GB	H. Bowman	PL	K. Zielinski
DE	S. Fischer	GB	J. Derrick	US	V. Cerf
DE	K. Geihs	GB	J. Sventek	US	G.J. Holzmann
DE	R. Gotzhein	GB	K. Turner	US	P. Honeyman
DE	H. Koenig	HK	S. Chanson	US	C. Talcott
DE	S. Leue	HU	S. Dibuz	US	R. Tenney
DE	J. de Meer	HU	K. Tarnay	ZA	P. Kritzinger
ES	D. de Frutos Escrig	IT	T. Bolognesi		

WG 6.2 (NETWORK AND INTERNETWORK ARCHITECTURES) est. 1994, rev. 2000

Co-Chair
Prof. S. TOHME
Computer Science and
Networks Department
ENST
46, rue Barrault
F-75634 PARIS CEDEX 13,
France
Tel. +33 1 4581 7861
Fax +33 1 4581 3119
e-mail: samir.tohme@enst.fr

Co-Chair
Prof. G. PUJOLLE
Laboratoire LIP6
University of Paris 6
8, rue du Capitaine Scott
F-75015 PARIS
France
Tel. +33 1 4427 7514
Fax +33 1 4427 5353
e-mail: guy.pujolle@lip6.fr

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

AT	H. Leopold	ES	J. Domingo-Pascual	MA	A. Benkiran
AT	R. Posch	ES	R. Puigjaner	PL	A. Jajszczyk
AU	A. Seneviratne	FI	O. Martikainen	PT	A. Casaca
BE	A. Danthine	FR	J.P. Coudreuse	PT	S. Nunes
BE	G. Leduc	FR	S. Fdida	PT	J. Rodrigues
BR	O. C. M. Duarte	FR	G. Hebuterne	SE	M. Boda
BR	J. N. de Souza	FR	D. Kofman	SE	D. Khakhar
CA	R. Boutaba	FR	J. Roberts	SE	U. Koerner
CA	N. Georganas	GB	D. Hutchison	SG	L. Mason
CA	A. Girard	GB	D. Kouvatsos	TH	A. Tubtiang
CH	W. Bux	GR	V. Pronototarios	TN	F. Kamoun
CH	J.-Y. Le Boudec	GR	I. Stavrakakis	US	A. T. Campbell
CH	S. Rao	HK	D. Tsang	US	M. Gerla
DE	W. Effelsberg	IN	S.V. Raghavan	US	B. Jabbari
DE	B. Heinrichs	IT	M. Conti	US	M. Johnson
DE	P. Kuehn	IT	L. Fratta	US	H. Perros
DE	R. Popescu-Zeletin	IT	M. Marsan	US	C. Rosenberg
DE	E. P. Rathgeb	IT	G. Ventre	US	F. Tobagi
DE	O. Spaniol	JP	T. Saito	US	C-K. Toh
ES	O.M. Casals Torres	JP	Y. Takahashi		

WG 6.3 (PERFORMANCE OF COMMUNICATION SYSTEMS) est. 1994

Chair
Dr. I. STAVRAKAKIS
Univ.of Athens
Dept.of Informatics
Panepistimiopolis, Illisia
15784 ATHENS, Greece
Tel. +30 1 727 5343
Fax +30 1 727 5601
e-mail: istavrak@di.uoa.gr

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

AT	G. Haring	FR	R. Marie	SE	J. Karlsson
BE	C. Blondia	FR	G. Pujolle	SE	U. Korner
BE	H. Bruneel	FR	J. Roberts	TN	F. Kamoun
BR	N. Fonseca	GB	P. Key	TR	C. Ersoy
BR	L. F. M. de Moraes	GB	D. Kouvatsos	TW	J.-F. Chang
BR	E. de Souza e Silva	GR	K. Kontovasilis	US	I. F. Akyildiz
CA	A. Leon-Garcia	GR	N. M. Mitrou	US	I. Chlamtac
CA	K. Sevcik	HU	T. Henk	US	T. Ephremides
CH	I. Iliadis	HU	S. Molnar	US	A. Farago
CH	J.-Y. Le Boudec	IL	I. Cidon	US	E. Gelenbe
CY	A. Pitsillides	IL	R. Rom	US	M. Gerla
DE	B. Haverkort	IL	M. Sidi	US	J. Kurose
DE	P. Kuehn	IT	M. Conti	US	J. W. Mark
DE	M. Reiser	IT	D. Ferrari	US	D. Mitra
DE	O. Spaniol	IT	L. Fratta	US	A. Nilsson
DE	P. Tran-Gia	IT	S. Giordano	US	R. Onvural
EG	K.F. Elsayed	JP	K. Kawashima	US	H. Perros
ES	O. Casals	JP	H. Takagi	US	C. Rosenberg
ES	S. Galmes	JP	Y. Takahashi	US	J. Silvester
ES	R. Puigjaner	NL	H. van den Berg	US	B. Stewart
FI	J. Virtamo	NO	B. Helvik	US	D. Towsley
FR	T. Atmaca	PL	J. Lubacz	US	S. K. Tripathi
FR	P. Boyer	PL	M. Pioro	US	K. S. Trivedi
FR	S. Fdida	SE	M. Boda	US	Y. Viniotis
FR	J. Labetoulle			ZA	P. S. Kritzinger

WG 6.4 (INTERNET APPLICATIONS ENGINEERING) est. 1979, revised 1991, 1996, 2000

Chair
Dr. A. IYENGAR
IBM Research
T. J. Watson Research Center
P. O. Box 704
YORKTOWN HEIGHTS,
NY 10598, USA
Tel.: +1 914 784 6468
Fax +1 914 784 7455
e-mail: aruni@watson.ibm.com

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

AU	A. Vercoustre	FR	G. Pujolle	TH	V. Wuwongse
AU	Y. Zhang	GB	H. Ashman	US	A. Broder
CA	N. Georganas	IE	C. Sreenan	US	Y. Chen
CA	A. Mendelzon	IT	F. Vitali	US	F. Douglis
CN	M. Lyu	JP	K. Ikeda	US	D. Tygar
DE	S. Fischer	NL	I. Herman	US	W. Vogels
ES	L. Navarro	PL	W. Cellary	US	M. Zurko

WG 6.6 (MANAGEMENT OF NETWORKS AND DISTRIBUTED SYSTEMS) est. 1986, rev. 2000

Chair

Dr. R. BOUTABA
University of Waterloo (Ontario)
Computer Science Dept.
WATERLOO, ON N2L3G1
Canada
Tel. +1 519 888 4820
Fax +1 519 885 1208
e-mail:
rboutaba@bbcr.uwaterloo.ca

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

AU	G. Chen	IT	L. Cerchio	US	J. Herman
AU	P.K. Ray	IT	R. Saracco	US	Y. Hildebrand
BE	V. Harikian	JP	M. Ejiri	US	G. Jakobson
BR	J. Neuman de Souza	JP	S. Hasegawa	US	A. Johnston
		JP	S. Nakai	US	G. Kar
BR	C. Westphall	JP	M. Yoshida	US	M. Klerer
CA	A. Banerjea	KR	J. Hong	US	I. Krishnan
CA	F. Daoud	KR	J.-T. Park	US	A.M. Lambert
CA	I. Katzela	SG	J. Biswas	US	A.A. Lazar
CH	M. Feridun	US	S. Aidarous	US	K. Lutz
CH	W. Kleinoeder	US	N. Anerousis	US	M. Malek
CH	L. Svobodova	US	S. Bapat	US	S. Marcus
DE	G. Dreo-Rodosek	US	L. Bernstein	US	S. Mazumdar
DE	K. Geihs	US	J. Betser	US	B. Meandzija
DE	H.-G. Hegering	US	P. Brusil	US	G. Mouradian
DE	J. Schoenwaelder	US	S. Calo	US	V. Sahin
DE	M. Tschichholz	US	M. Chernick	US	A. Sethi
DE	W. Zimmer	US	A. Clemm	US	R. Stadler
DK	O.K. Thomsen	US	R.S. Cohen	US	B. Sugla
FR	O. Festor	US	J. Embry	US	M. Sylor
FR	Y. Raynaud	US	I. Frisch	US	S. Towers
FR	M. Sibilla	US	G. Goldszmidt	US	J. Warner
FR	F. Vincent-Franc	US	G. Gopal	US	R. Weihmayer
GB	E. Lupu	US	S. Goyal	US	Y. Yemini
GB	G. Pavlou	US	S. Handelman	US	D. Zuckerman
GB	M. Sloman	US	M. Hasan	ZA	J. Roos
IE	W. Donnelly	US	J. Hellerstein		
IT	E. Bagnasco				

WG 6.7 (SMART NETWORKS) est. 1996, rev. 1998

Chair
Prof. D. 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. R. REDA
Siemens AG Oesterreich
Competence Center
Systems Engineering
Siemensstrasse 92
AT-1211 VIENNA
Austria
Tel. +43 1 51707 24540
Fax +43 1 51707 24700
e-mail: reda.reda@siemens.at

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

AT	H. van As	FI	K. Raatikainen	RU	M. Schneps-Schneppe
DE	H. König	FR	N. Boukhatem	RU	K. Samouylov
DE	K. Neunast	FR	E. Najm	TH	V. Wuwongse
DE	R. Popescu Zeletin	FR	G. Pujolle	US	S. Alexander
DE	O. Spaniol	JP	M. Kataoka	US	S. Nettles
DK	V.B. Iversen	JP	O. Takada	US	J. Smith
FI	J. Jormakka	JP	K. Yoshida	US	A. N. Tantawi
FI	O. Martikainen	NO	F. Aagesen	US	Y. Yemini
FI	V. Naoumov	NO	T. Jensen	ZA	K. Koen

WG 6.8 (MOBILE AND WIRELESS COMMUNICATIONS) est. 1996**,** rev. 2002

Co-Chair
Mr. J. SLAVIK
TESTCOM
Hvozdanska 3
CZ-14800 PRAGUE
Czech Republic
Tel. +420 2 7992351
Fax +420 2 7934588
e-mail: slavik@mailserv.testcom.cz

Co-Chair
Dr. G. OMIDYAR
National Univ.of Singapore
Inst. for Comm.Research
20 Science Park Road, #02-34/37,
TeleTech Park, Singapore
Science Park II
SG-SINGAPORE 117674
Tel. +65 6870 9130
e-mail: gomidyar@cwc.nus.edu.sg

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

CH	P. Chevillat	FR	G. Pujolle	JP	T. Saito
DE	O. Spaniol	FR	S. Tohme	MY	S. Chandran
DE	A. Wolisz	HU	A. Valko	NL	S. Heemstra de Droot
DK	V. Iversen	IN	D. Saha	NL	I. Niemegeers
FI	V. Hara	IT	M. Conti	PL	J. Wozniak
FI	O. Martikainen	IT	F. Davoli	SE	G. Maguire
FR	O. Kone	IT	S. Giordano	US	A. Acharya
FR	P. Lorenz	JP	T. Hattori		

WG 6.9 (COMMUNICATION SYSTEMS IN DEVELOPING COUNTRIES) est. 2002

Chair
Prof. R. PUIGJANER
Univ. de les Illes Balears
Departament de Ciencies Matematiques
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
membership list under establishment

WG 6.10 (PHOTONIC NETWORKING) est. 1998

Chair
Prof. H. van AS
Vienna Univ. of Technology
Inst.of Comm. Networks
Favoritenstr. 9/388
A-1040 VIENNA, Austria
Tel. +43 1 58801 38800
Fax +43 1 58801 38898
e-mail: harmen.r.van-as@tuwien.ac.at

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

AT	A. Jukan	FI	O. Martikainen	IT	G. de Marchis
DE	H. Jaeger	FR	M. Gagnaire	IT	A. Pattavina
DE	B. Schmauss	IN	D. Saha	IT	R. Sabella

WG 6.11 (ELECTRONIC COMMERCE - COMMUNICATION SYSTEMS) est. 2000

Chair
Dr. V. TSCHAMMER
FhG Fokus Berlin
Kaiserin-Augusta-Allee 31
D-10589 BERLIN
Germany
Tel. +49 30 3463 7226/7200
Fax +49 30 3463 8000/8226
e-mail: tschammer@fokus.fhg.de

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

AU	Z. Milosevic	DE	E. Neuhold	PL	W. Cellary
BR	M. Mendes	DE	V. Ouzounis	PT	L. Camarinha-Matos
CH	D. Konstantas	DE	P. Swatman	SE	D. Khakhar
CH	B. Schmid	FI	V. Hara	TN	F. Kamoun
CH	K. Stanoevska	GB	K. Rannenberg	ZA	J. Eloff
DE	R. Grimm	GB	S. Shrivastava	ZA	K. Koen
DE	W. Lamersdorf	GR	A. Tsalgatidou		
DE	M. Merz				

TC 7 (SYSTEM MODELLING AND OPTIMIZATION) est. 1972

AIMS

- to provide an international clearing house for computational (as well as related theoretical) aspects of optimization problems in diverse areas and to share computing experience gained on specific applications;
- to promote the development of necessary high-level theory to meet the needs of complex optimization problems and establish appropriate cooperation with the International Mathematics Union and similar organisations;
- to foster interdisciplinary activity on optimization problems spanning the various areas such as Economics (including Business Administration and Management), Biomedicine, Meteorology, etc., in cooperation with associated international bodies.

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;
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- optimization of pollution-control systems;
- optimization of man-machine systems;
- optimization of power systems operation.

Chair
Prof. I. LASIECKA, US/ACM
University of Virginia
Dept. of Math., Kerchof Hall
CHARLOTTESVILLE
VA 22901, USA
Tel. +1 434 924 4919
Fax +1 434 982 3084
e-mail: il2v@weyl.math.virginia.edu

Vice-Chair
Dr. J. HENRY, FR
INRIA Rocquencourt
BP 105, Domaine de Voluceau
F-78153 LE CHESNAY CEDEX
France
Tel. +33 1 3963 5511
Fax +33 1 39 63 5330
e-mail: jacques.henry@inria.fr

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

AR	H.D. Scolnik	ES	J. Barcelo Bugeda	NL	A.J.M. Beulens
AT	A. Kalliauer	FI	R.P. Hämäläinen	NO	S.W. Wallace
BE	P. Toint	GB	M.J.D. Powell	PL	K. Malanowski
BG	P. Kenderov	GR	S. Likothanassis	RU	Y.G. Evtushenko
BR	E. de Souza e Silva	HU	J. Szelezsan	SG	K.C. Ng
CH	P. Kall	IN	N.C. Jain	SI	J. Grad
CN	S. Junde	IT	G. Di Pillo	SK	B. Frankovic
DK	A. Larsen	JP	H. Kameda	US	S. Ranka (IEEE)

ex-officio members: WG Chairs

WG 7.1 (MODELLING AND SIMULATION) est. 1972

Chair
Prof. A. 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	C.G. Vansteenkiste	LT	N. Telksnys	US	R. Leland
CA	R. Mazumder	NL	P. Eykhoff	US	J. Meditch
IT	G. Koch	US	A.V. Balakrishnan	US	R.A. Mohler
IT	A. DeSantis	US	N. De Claris	ZA	P.J. Vermeulen

WG 7.2 (COMPUTATIONAL TECHNIQUES IN DISTRIBUTED SYSTEMS) est. 1973

Chair
Prof. J.P. 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. F. 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. J. 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

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

CA	M.C. Delfour	FR	J. Henry	PL	N. T. Nguyen
CN	J. Yong	FR	J.P. Puel	RO	R. Tiba
DE	K. Hoffman	FR	J.-P. Raymond	RU	R. Curtain
DE	W. Krabs	FR	J. Simon	RU	A. Kurzhanski
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ES	E. Casas	IT	F. Bucci	US	W. Hager
ES	J. Diaz	IT	G. Da Prato	US	A. Khapalov
ES	L. Fernandez	IT	U. Mosco	US	I. Lasiecka
FR	M. Bergounioux	IT	L. Pandolfi	US	S. Sivsundaram
FR	R. Glowinski	NL	I. Chueshov		

WG 7.3 (COMPUTER SYSTEM MODELLING) est. 1973

Chair
Prof. D. 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. E. 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. P. 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

BE	P.J. Courtois	IT	G. Iazeolla	US	H. Kobayashi
BE	G. Latouche	IT	G. Serazzi	US	A.G. Konheim
CA	D.L. Eager	JP	H. Saito	US	S.S. Lavenberg
CA	K.C. Sevcik	JP	H. Takagi	US	E.D. Lazowska
CA	J.W. Wong	JP	Y. Takahashi	US	B. Melamed
CH	W. Bux	NL	O.J. Boxma	US	D. Mitra
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DE	H. Beilner	NL	N. M. van Dijk	US	R. Nelson
DE	U. Herzog	RU	L.B. Boguslavsky	US	R. Onvural
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DE	R. Schassberger	US	I.F. Akyildiz	US	H.G. Perros
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DE	P. Tran-Gia	US	E.G. Coffman	US	B. Sengupta
FR	F. Baccelli	US	P.J. Dening	US	A.J. Smith
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FR	G. Pujolle	US	L.W. Dowdy	US	A.N. Tantawi
GB	P.G. Harrison	US	D. Ferrari	US	S.K. Tripathi
GB	F.P. Kelly	US	D. Gaver	US	K.S. Trivedi
GB	I. Mitrani	US	E. Gelenbe	US	M.K. Vernon
IL	Y. Kogan	US	A. Greenberg	US	W. Whitt
IL	U. Yechiali	US	P. Heidelberger	US	J. Zahorjan
IT	G. Balbo	US	M. Hofri	ZA	P. Kritzinger

WG 7.4 (DISCRETE OPTIMIZATION) est. 1986

Chair
Prof. P.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

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

AT	R. Burkard	FR	C. Roucairol	NO	S. Wallace
BE	Y. Crama	FR	L. van Wassenhove	PL	J. Blazewicz
BR	C. Ferreira	GB	M. Anthony	PL	M. Libura
BR	C. Ribeiro	GB	N. Christofides	PL	M. Syslo
BY	V. Tanaev	HU	G. Galambos	RU	B. Cherkassky
CA	G. Laporte	HU	A. Recski	US	P. Arabie
CA	T. McCormick	IL	M. Golumbic	US	E. Balas
CA	M. Queyranne	IL	R. Shamir	US	E. Boros
CH	T. Liebling	IT	S. Pallottino	US	G. Cornuejols
CH	D. de Werra	IT	G. Rinaldi	US	F. Glover
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DE	H. Hamacher	IT	B. Simeone	US	J. Mazzola
DE	R. Möhring	IT	P. Toth	US	R. Marsten
DE	U. Zimmermann	IT	C. Vercellis	US	C. Monma
DK	J. Clausen	JP	S. Fujishige	US	G. Nemhauser
DK	J. Tind	JP	T. Ibaraki	US	M. Padberg
DK	P. Winter	JP	N. Katoh	US	A. Prekopa
ES	E. Fernandez Areizaga	JP	K. Murota	US	L. Schrage
		NL	U. Faigle	US	G. Turan
FR	G. Finke	NL	M. Salomon	US	V. Vapnik
FR	M. Minoux				
FR	D. Naddef				

WG 7.5 (RELIABILITY AND OPTIMIZATION OF STRUCTURAL SYSTEMS) est. 1986

Chair
Prof. H. FURUTA
Kansai University
Dept. of Informatics
2-1-1 Ryozenji-cho
Takatsuki-City
OSAKA, 569-1095
Japan
Tel.: +81 726 90 2438
Fax: +81 726 90 2493
e-mail: furuta@res.kutc.kansai-u.ac.jp

Vice-Chair
Prof. M. MAES
University of Calgary
Dept. of Civil Engineering
2500 University Drive NW
CALGARY, AB
Canada
Tel.: +1 403 220 7400
Fax: +1 403 282 7026
e-mail: mamaes@ucalgary.ca

AU	R.E. Melchers	IT	M. Gioffre	US	C.A. Cornell
DE	K. Marti	JP	M. Dogaki	US	R.B. Corotis
DE	R. Rackwitz	JP	H. Ishikawa	US	A. Der Kiureghian
DK	O. Ditlevsen	JP	M. Kawatani	US	H. Ellis
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		MX	L. Esteva	US	P. Geyskens
ES	J. Casas Rius	PL	S. Jendo	US	M. Grigoriu
FR	M. Lemaire	PL	P. Sniady	US	A. S. Nowak
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HK	W. Tang	PT	C. Guedes Soares	US	Y.K. Wen
IT	G. Augusti	US	A.H.-S. Ang	ZA	R. Iwankiewicz
IT	A. Borri				
IT	M. Ciampoli				

WG 7.6 (OPTIMIZATION-BASED COMPUTER-AIDED MODELLING AND DESIGN) est. 1989

Chair
Prof. H.-J. SEBASTIAN
RWTH Aachen
Inst. Wirtsch.wiss.schaften
Templergraben 55
D-52056 AACHEN, Germany
Tel. +49 2 41 806185
Fax +49 2 41 8888 168
e-mail: sebasti@or.rwth-aachen.de

Vice-Chair
Dr. D.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

BE	H. Artiba	DE	W.S. Wittig	NL	A. Beulens
CA	T. Crainic	FR	Y. Hamam	PL	J. Granat
CA	D. Ionescu	GB	K.S. Hindi	PL	M. Makowski
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DE	S. Voss	LT	A. Zilinskas	US	D. Dolk

WG 7.7 (STOCHASTIC OPTIMIZATION) est. 1989

Chair
Prof. K. 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

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

AT	Y. Ermoliev	EE	R. Lepp	RU	I.V. Evstigneev
BE	F. Louveaux	GB	M.A.H. Dempster	US	J.R. Birge
BE	Y. Smeers	IT	W.J. Runggaldier	US	J. Higle
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CN	J. Wang	NO	S. Flam	US	R.T. Rockafellar
CU	C. Bouza	NO	A. Gaivoronski	US	A. Ruszczynski
CZ	T. Cipra	NO	S.W. Wallace	US	S. Sen
CZ	J. Dupacova	NZ	A.B. Philpott	US	R.J.-B. Wets
DE	W. Roemisch	RU	V. I. Arkin		

TC 8 (INFORMATION SYSTEMS) est. 1976, revised 1990

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Chair

Prof. D. ROODE, ZA
University of Pretoria
Dept. of Informatics
PRETORIA 0002
South Africa
Tel. +27 12 420 3798
Fax +27 12 362 5287
e-mail: jdroode@sit.up.ac.za

Vice-Chairs

Prof. E. NEUHOLD, US/IEEE
GMD-IPSI
Dolivostr. 15
D-64293 DARMSTADT
Germany
Tel. +49 6151 869 802
Fax +49 6151 869 969
e-mail:
neuhold@darmstadt.gmd.de

Prof. D. AVISON
ESSEC Business School
Departement SID
Avenue Bernard Hirsch
BP 105
95021 CERGY-PONTOISE,
France
Tel.: +33 1 3443 3195
Fax: +33 1 3443 3001
e-mail: avison@essec.fr

Secretary

Prof. J. PRIES-HEJE, DK
The IT University of
Copenhagen
DUIT
Glentevej 67
DK-2400 COPENHAGEN
Denmark
Tel. +45 3816 8888
e-mail: jph@itu.dk

URL: http://ifiptc8.cis.gsu.edu/ifip

AT	R. Traunmueller	GB	T.W. Olle	NO	J. Krogstie
AU	B.C. Glasson	GR	M. Giakoumakis	NZ	M. Myers
BE	D. Deschoolmester	HU	P. Vasarhelyi	PL	J. Kacprzyk
BG	P. Azalov	IE	A. Sherwood-Smith	PT	D.J.A. Carvalho

CH	K. Bauknecht	IL	M. Hanani	SE	M. Lundeberg
CN	J. Wang	IN	S. Krishna	SG	J. Motiwalla
CZ	J. Pik	IT	G. Bracchi	SI	J. Gricar
DE	W. Hesse	JP	T. Uchiki	SK	A. Scheber
ES	R. Andreu Civit	NL	J.L.G.Dietz	US	G.M. Kasper (ACM)
FI	M. Saaksjarvi				

ex-officio members: WG Chairs

WG 8.1 (DESIGN AND EVALUATION OF INFORMATION SYSTEMS)
est. 1976, revised 1990, 1992

Chair	**Vice-Chair**	**Secretary**
Prof. H. KANGASSALO	Prof. B. PERNICI	Dr. M. SAEKI
Univ. of Tampere	Politecnico di Milano	Tokyo Inst.of Technology
Dept. of Computer Science	Dipt.di Elettronica e Informazione	Dept.of Comp.Science
PO Box 607	Piazza Leonardo da Vinci 32	Ookayama 2-12-1, Meguro-ku
FIN-33101 TAMPERE	I-20133 MILANO, Italy	TOKYO 152, Japan
Tel. +358 3 2156778	Tel. +39 02 23993526	Tel. +81 3 5734 2192
Fax +358 3 2156070	Fax:+39 02 23993411	Fax +81 3 5734 2911
e-mail: hk@cs.uta.fi	e-mail: pernici@elet.polimi.it	e-mail: saeki@cs.titech.ac.jp

URL: http://www.cs.uta.fi/ifip/wg8.1/

AT	R. Traunmüller	GB	P. Kawalek	NO	J. Krogstie
BE	F. Bodart	GB	I. MacDonald	NO	A.L. Opdahl
BE	J. Hagelstein	GB	B. Olle	NO	A. Solvberg
BE	F. van Assche	GB	A.G. Sutcliffe	NZ	J. Grundy
CA	E. Abou-Zeid	IL	M.Z. Hanani	PT	A. Sernadas
CA	Y. Wand	IN	N. Prakash	PT	C. Sernadas
CH	M. Léonard	IT	G. Bracchi	SE	J. Bubenko
CH	Y. Pigneur	IT	M. Missikoff	SE	E. Lindencrona-
CN	Ch. Yu	NL	S. Brinkkemper		Ohlin
DE	W. Hesse	NL	J. Dietz	SE	M. Lundeberg
DK	P. Lindgreen	NL	L.J.B. Essink	SE	B. Nilsson
ES	A. Olive	NL	E. Falkenberg	US	A. Berztiss
FI	J. Iivari	NL	G.J. Ramackers	US	T. Halpin
FI	S. Kelly	NL	H.G. Sol	US	J. Odell
FR	C. Rolland	NL	R. Stamper	US	K. Siau
GB	D. Avison	NL	A.A. Verrijn-Stuart	US	A. Wasserman
GB	A. Finkelstein	NL	G. Wijers	ZA	G. McLeod

WG 8.2 (THE INTERACTION OF INFORMATION SYSTEMS AND THE ORGANIZATION) est. 1977

Chair	**Vice-Chair**	**Secretary**
Prof. J. KENDALL	Prof. M.D. MYERS	Dr. N. RUSSO
School of Business-Camden	University of Auckland	Northern Illinois University
Rutgers University	Dept. of Mgmt. Sc. & Inf. Syst.	OMIS Dept.
227 Penn Street	Private Bag 92019	Barsema 328
CAMDEN, NJ 08102, U.S.A	AUCKLAND, New Zealand	DEKALB, IL 60115, USA
Tel.:+1 856 225 6586	Tel. +649 3737599 7468	Tel. +1 815 753 1185
Fax +1 856 424 6157	Fax +649 3737430	Fax +1 815 753 7460
e-mail: julie@thekendalls.org	e-mail: m.myers@auckland.ac.nz	e-mail: nrusso@niu.edu

URL: http://www.ifipwg82.org

AU	D. Cecez-Kecmanovic	GB	E. Mumford	US	S. Brown
AU	D. Falconer	GB	J. Nandhakumar	US	S. Conger
AU	B. Glasson	GB	M. Newman	US	R. Cooper
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AU	J. Venable	GB	S. Smithson	US	A. Hartman
AU	L. von Hellens	GB	R. Vidgen	US	R. Hirschheim
BE	D. Deschoolmeester	GB	G. Walsham	US	S. Iacono
BR	D. de Souza Dias	GB	E. Whitley	US	M. Janson
BR	E. Morgado	GB	T. Wood-Harper	US	A.M. Jenkins
CA	J. Legare	GR	A. Poulymenakou	US	K. Kaiser
CA	C. Middleton	HK	R. Davison	US	B. Kaplan
CA	A. Pinsonneault	IE	B. Fitzgerald	US	L. Kappelman
DE	H. Krcmar	IL	G. Ariav	US	K.E. Kendall
DK	I. Aaen	IT	C. Ciborra	US	H. Klein
DK	N. Bjorn-Andersen	MO	F. Xia	US	R. Lamb
DK	J. Damsgaard	NL	J. Aarts	US	A. Lee
DK	J. Holck	NL	W. Baets	US	M. Major
DK	M. Kuhn Pedersen	NL	T.M.A. Bemelmans	US	L. Markus
DK	L. Mathiassen	NL	K. Kumar	US	E. McLean
DK	P. Nielsen	NL	R. Kusters	US	R. Montealegre
DK	J. Rose	NL	P. Mantelaers	US	L. Murphy
DK	J. Stage	NL	H.J. Oppelland	US	W. Nance
DK	J. Pries-Heje	NL	Ph.S. Seligmann	US	D. Ngwenyama
FI	I. Eriksson	NL	R. van den Berg	US	W. Orlikowski
FI	A. Heiskanen	NL	H. van der Blonk	US	K. Peffers
FI	J. Iivari	NO	K. Braa	US	B.T. Pentland
FI	T. Kakola	NO	O. Hanseth	US	D.J. Power
FI	H. Karsten	NO	R. Hellman	US	D. Radell
FI	P. Kerola	NO	J. Kaasboll	US	J.W. Ross
FI	M. Korpela	NO	T. Knudsen	US	N. Russo
FI	K. Lyytinen	NO	T. Larsen	US	S. Sawyer
FI	M. Sääksjärvi	NZ	B. Doolin	US	R. Schmidt
FR	E. Monod	SE	G. Agner Sigbo	US	U. Schultze
GB	J. Allen	SE	O. Forsgren	US	V. Spitler
GB	L. Bhabuta	SE	A. Grahn	US	D. Sutherland
GB	A.P. Brown	SE	O. Henfridsson	US	E.B. Swanson
GB	T. Cornford	SE	M. Maehring	US	E. Trauth
GB	B. Farbey	SE	H.-E. Nissen	US	D.P. Truex
GB	G. Fitzgerald	SE	A. Olerup	US	N.S. Umanath
GB	C. Hemingway	SE	B. Rapp	US	C. Vician
GB	D. Howcroft	SE	E. Stolterman	US	R.J. Welke
GB	L. Introna	SG	Ch.S. Yap	US	C. Wells
GB	N. Jayaratne	US	D. Adams	US	S. Winter
GB	M. Jones	US	R. Alvarez	US	E. Wynn
GB	F. Land	US	R. Baskerville	US	J. Wynekoop
GB	J. Liebenau	US	R. Boland	US	R.W. Zmud
GB	S. Little	US	B. Breeding	YU	J. Gricar
GB	T. McMaster	US	M. Brown	ZA	L. Whittaker

WG 8.3 (DECISION SUPPORT SYSTEMS) est. 1981

Chair
Prof. A. McCOSH
University of Edinburgh
Dept. of Business Studies
The Management School
50 George Square
EDINBURGH EH8 9JY, U.K.
Tel. +44 131 6504603
Fax +44 131 6683053
e-mail: a.mccosh@ed.ac.uk

Vice-Chairs
Dr. P. HUMPHREY'S
London School of Econ. & Political Sciences
Dept. of Social Psychology
Houghton Street
LONDON WC2 2AE, U.K.
e-mail: p.humphreys@lse.ac.uk

Prof. S. 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

Secretary
Prof. Z. PAPRIKA
Budapest University of Economic Sciences and Public Administration
Foevam ter 8
H-1093 BUDAPEST, Hungary
Tel. +361 2176740
Fax +361 2176714
e-mail: zita.paprika@nki.bke.hu

URL: http://www-personal.umich.edu/~widmeyer/ifipwg83

AU	D. Arnott	GB	A. Davies	NO	L.M. Methlie
AU	C. Brookes	GB	L. Garcia	PL	H. Sroka
AU	F. Burstein	GB	C. Lorac	PL	S. Stanek
AU	D. Cecéz-Kecmanovic	GB	B. Mayon-White	PT	H. Coelho
		GB	F. Quek	RU	O. Larichev
AU	B.C. Glasson	GB	M. Simosi	RU	E. Nappelbaum
AU	M. Handzic	GB	A. Steinberg	SE	S. Carlson
AU	R. Meredith	HK	E. Turban	SE	B. Cronquist
AU	P. O'Donell	HU	V. Dorfler	SE	S-O. Larsson
AU	G. Shanks	HU	P. Gelleri	SE	B. Thodenius
CH	A. Gachet	HU	A. Vari	SI	S. Bobek
CL	O. Garcia	HU	J. Vecsenyi	SI	M. Bohanec
CL	R. Orellana	IE	F. Adam	SI	B. Cestnik
DE	F. Lang	IE	L. Bannon	SI	E. Delidzakova-Drenik
DE	C. Loebbecke	IE	P. Keenan		
DE	P. Mertens	IE	C. Murphy	SI	M. Kljajic
ES	F. Aixala	IE	K. Neville	SI	V. Rajkovic
ES	S. Ayestaran	IE	P. O'Reilly	US	A.T. Berztiss
FI	P. Landor	IE	D. Sammon	US	G. Huber
FI	K. Pulkkinen	IT	C. Ferioli	US	D. Power
FR	P. Brezillon	IT	P. Migliarese	US	R. Sprague
FR	S. Damart	IT	M.F. Norese	US	A.B. Whinston
FR	M. Klein	JP	Y. Kobashi	US	G. Widmeyer
FR	A. Pachulski	NL	H. Gazendam	US	L. Young
FR	J.C. Pomerol	NL	G. de Zeeuw	US	R. Zmud
FR	C. Zanni	NL	R. M. Lee	ZA	N. Duffy
GB	D. Berkeley	NL	H.G. Sol		

WG 8.4 (E-Business: Multi-disciplinary research and practice) est. 1986, prov. revised 2001

Chair
Prof. S. ELLIOT
University of Newcastle
Central Coast School of
eBusiness & Management
PO Box 127
AU-QURIMBAH, NSW 2258
Australia
Tel. +61 2 4348 4156
Fax +61 2 4348 4175
e-mail:
selliot@mail.newcastle.edu.au

Vice-Chairs
Prof. K. V. ANDERSEN
Copenhagen Business School
Dept. of Informatics
Howitzvej 60
DK-2000 FREDERIKSBERG
Denmark
Tel. +45 3815 2437
Fax +45 3815 2401
e-mail: kva.inf@cbs.dk

Prof. E. M. TRAUTH
Pennsylvania State University
School of Inf. Sc. & Technology
002H Thomas Building
University Park
PA 16802, USA
e-mail: etrauth@ist.psu.edu

Secretary
Dr. S. REICH
SalzburgResearch/
SunTREC/AAJC
Jakob Haringer Str. 5
A-5020 SALZBURG, Austria
Tel. +43 662 2288 461
Fax +43 662 2288 222
e-mail:
sreich@salzburgresearch.at

URL: http://www.ccc.newcastle.edu.au/ifip84/

AT	P. Amann	AU	E. Lawrence	HK	D. Vogel
AT	F. Bayer	AU	P. Marshall	IT	B. Intrigila
AT	G. Gaube	AU	C. Moussi	IT	P. Inverardi
AT	G. Guentner	AU	S. Newton	IT	M. Mecella
AT	C. Kittl	AU	M. A. Patton	JP	T. Kobayashi
AT	T. Menzel	AU	G. Quirchmayr	JP	T. Uchiki
AT	O. Petrovic	AU	N. Wickramasinghe	NE	J. Adebayo Ayoola
AT	R. Traunmueller	AU	H. Winklhofer	NL	E. Christiaanse
AT	A. Wagner	BE	D. Deschoolmeester	NL	P. Hartel
AU	C. Alcock	CH	R. Riedl	NL	M. Hendrikse
AU	C. Bauer	CN	Y. Chen	NL	M. Mossinkoff
AU	L. Burgess	CN	M. Q. Fang	NL	A. Wassenaar
AU	J. Burn	DE	B. Hoerger	NO	J. Krogstie
AU	T. Castleman	DK	S. Perlusz	NZ	Z. J. Kovacic
AU	N. Cerpa	ES	J. Davila Muro	SE	M. Klang
AU	R. Clarke	ES	F.J. Lopez Munoz	SE	F. Roos
AU	J. Cooper	FR	D. Avison	TN	S. Kaabi Chihi
AU	F. Cross	GB	R. Baskerville	TN	H. Kaffel Ben Ayed
AU	V. Farrell	GB	A. McCosh	TN	F. Kamoun
AU	B. Garner	GB	W. L. Currie	US	G. Davis
AU	B. Glasson	GB	Y. Ekanayaka	US	M. Janson
AU	S. Gregor	GB	W. Olle	US	E. McLean
AU	M. Handzic	GB	B. Roberts	US	J. Pries-Heje
AU	B. Hunt	GH	M. B. Afari	US	G. Widmeyer
AU	R. Johnston	GH	K. Haligah	ZA	D. Roode

WG 8.5 (INFORMATION SYSTEMS IN PUBLIC ADMINISTRATION) est. 1988

Chair
Dr. F. GALINDO
Universidad de Zaragoza
Facultad de Derecho
Filosofia del Derecho
E-50009 ZARAGOZA
Spain
Tel. +34 976 761455
Fax +34 976 761499
e-mail: fga@posta.unizar.es

Vice-Chair
Prof. A. GROENLUND
Umea University
Department of Informatics
SE-901 87 Umeå
Sweden
Tel. +46 90 786 6224
Fax +46 90 786 65 50
e-mail: gron@informatik.umu.se

Secretary
Dr. M. WIMMER
J. Kepler Univ. Linz
Techn.-Naturwiss. Fakultaet
Inst. f. Angew. Informatik
Altenbergerstr. 69
A-4040 LINZ, Austria
Tel. +43 732 2468 9586
Fax +43 732 2468 9308
e-mail: mw@ifs.uni-linz.ac.at

URL: http://140.78.90.41/research/ifip85.html

AT	G. Quirchmayr	FI	K. Kuutti	NL	H.G. Sol
AT	R. Traunmueller	FR	M. Klein	NL	R. Stamper
CZ	W. Marik	GB	W. Olle	NL	T. van Engers
DE	H. Bonin	GR	T. Spyridakos	RO	N. Costake
DE	H. Fiedler	HU	A. Gabor	TH	W. Chutimaskul
DE	T. Gordon	IT	A. Martino	US	A. Berztiss
DE	K. Lenk	NL	P. Bots	US	J.L. King
DE	H. Reinermann	NL	B. Brussaard	US	K. Kraemer
DE	M. Tauber	NL	P.H.A. Frissen	US	M. Milakovich
DK	C. Friis	NL	I. Snellen		

WG 8.6 (TRANSFER AND DIFFUSION OF INFORMATION TECHNOLOGY) est. 1994

Chair
Dr. K. KAUTZ
Copenhagen Business School
Institute for Informatics
Howitzvej 60
DK-2000 FREDERIKSBERG
Denmark
Tel.+45 38 15 2400
Fax+45 38 15 2401
e-mail: karl.kautz@cbs.dk

Vice-Chairs
Mr. R. VERYARD
8 Glencairn Drive
Ealing, LONDON W5 1RT, U.K.
Tel. +44 208 810 4431
Fax +44 208 810 4531
e-mail: richard@veryard.com

Dr. L. 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

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

URL: www.isi.salford.ac.uk/ifip

AU	B. Glasson	FI	K. Leppala	US	M. Barbacci
AU	G. Lindgaard	GB	C. Brooke	US	R. Baskerville
DE	M. Wasmund	GB	S. Little	US	B. Bowers
DK	J. Damsgaard	GB	T. McMaster	US	S. Brown
DK	P.A. Nielsen	GB	Ch. Sauer	US	L. Brownsword
DK	J. Pries-Heje	GB	R. Vidgen	US	P. Fowler
DK	C. Sorensen	GB	D. Wastell	US	L. Lien
DK	H. Zinner Henriksen	NO	K. Braa	US	V. Sambamurthy
ES	G. Serrano Leon	NO	T. Larsen	US	R. Zmud
FI	P. Kuvaja	US	R. Agarwal		

WG 8.8 (SMART CARDS) est. 1998

Chair
Dr. P.H. HARTEL
Univ. of Twente
Faculty of Computer Science
P. O. Box 217
NL-7500 AE ENSCHEDE
Netherlands
Tel. +31 53 4892411
Fax +31 53 4894590
e-mail: pieter@cs.utwente.nl

Vice-Chairs
Prof. J.-J. QUISQUATER
UCL Crypto group
DICE
3 Place du Levant
B-1348 LOUVAIN-LA-NEUVE
Belgium
Tel. +32 10 472541
Fax +32 10 472598
e-mail: quisquater@dice.ucl.be

Dr. P. HONEYMAN
University of Michigan - CITI
519 W. William Street
ANN ARBOR, MI 48103-4943
U.S.A.
Tel. +1 743 763 4413
Fax +1 743 763 4434
e-mail: honey@citi.umich.edu

URL: http://www.ecs.soton.ac.uk/~phh/ifip-wg88/

AU	R. Lindley	FR	V. Cordonnier	GB	D. Gollmann
AU	M. Looi	FR	Y. Deswarte	GB	T. Okochi
AU	T. Watson	FR	D. Donsez	GB	B. Phillips
CH	M. Waidner	FR	G. Grimaud	HU	Z. Kincses
DE	B. Meyer	FR	S. Jean	JP	T. Okamoto
DE	J. Posegga	FR	S. Lecomte	NL	R. Hirschfeld
ES	J. Domingo-Ferrer	FR	P. Paradinas	US	E. de Jong
ES	J. Rifa Coma	FR	J. Patarin		

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.

Chair
Prof. J. BERLEUR, BE
Institut d'Informatique
Fac.Univ. N.D. de la Paix
Cellule interfacultaire de Techn. Assessment (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

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

Secretary
Prof. J.A.N. LEE, US/IEEE
Dept.of Comp. Science
Virginia Tech
BLACKSBURG,
VA 24061-0106, U.S.A.
Tel. +1 540 231 5780
Fax +1 540 231 6075
e-mail: janlee@cs.vt.edu

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

AT	H. Werthner	DK	L.B. Rasmussen	JP	T. Matsumoto
AU	J. Weckert	FI	M. Nurminen	NL	C. Metselaar
BG	N. Ognyanova	FR	G. Verroust	NO	H. Dvergsdal
CA	A. Clement	GB	R. Sizer	PL	A. Straszak
CH	L. M. Hilty	GR	V. Laopodis	PT	A. Simoes Monteiro
CN	X. Chen	HU	L.Z. Karvalics	SE	I. Larsson
CZ	J. Honzik	IE	J. Drumm	SI	F. Pivec
DE	K. Brunnstein	IL	D. Millin	SK	L. Uncovsky
DE	W. Coy	IN	S. Sadagopan	US	R.E. Anderson (ACM)
				ZA	J. Miller

ex-officio members: WG Chairs

WG 9.1 (COMPUTERS AND WORK) est. 1977

Chair	**Vice-Chair**	**Secretary**
Dr. P. MAMBREY	Mr. R. TRIGG	Dr. E. BALKA
G M D	The Global Fund for Women	School of Communication
PO Box 1316	425 Sherman Avenue	Fac. of Applied Science
Schloss Birlinghoven	PALO ALTO, CA 94306	Simon Fraser University
DE-53757 ST.AUGUSTIN	U.S.A.	BURNABY, BC V5A 1S6,
Germany	Tel. +1 650 853 8305	Canada
Tel.+49 2241 142710	e-mail: trigg@workpractice.com	Tel.+1 604 291 3764
Fax+49 2241 142084		Fax+1 604 291 4024
e-mail: mambrey@gmd.de		e-mail: ebalka@sfu.ca

URL: http://orgwis.gmd.de/~mambrey/ifip9.1.html

AT	P. Kolm	DK	J.P. Bansler	NL	K. Tijdens
AT	I. Wagner	DK	F. Kensing	NO	T. Bratteteig
AU	J. Cameron	DK	J. Kjaer	SE	G. Bradley
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DE	U. Briefs	FI	M. Nurminen	SE	A. Olerup
DE	K. Fuchs-Kittowski	IE	L.J. Bannon	SE	I. Larsson
DE	Th. Herrmann	IT	C. Ciborra	US	R. Kling
DE	R. Keil-Slawik	NL	P. van den	US	M. Muller
DE	B. Lutterbeck		Besselaar	US	L. Suchman
		NL	F. den Hertog		

WG 9.2 (SOCIAL ACCOUNTABILITY) est. 1977

Chair	**Vice-Chair**	**Secretary**
Mr. J. HOLVAST	Ms. D. WHITEHOUSE	Ms. P. DUQUENOY
Holvast & Partner, Privacy	Avenue Prekelinden 104	Middlesex University
Advies-en Onderzoeksbureau	BE-1200 BRUXELLES	School of Comp. Science
Drakenstein 55	Belgium	Trent Park, Bramley Road
NL-1121 HD LANDSMEER		GB-LONDON N14 4YZ
Netherlands		United Kingdom
Tel. +31 20 482 3134		Tel.: +44 208 8411 4333
Fax:+31 20 482 4969		e-mail: p.duquenoy@mdx.ac.uk
e-mail: henp.holvast@planet.nl		

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

AU	J. Cameron	FI	M. Stenberg	NL	T.K. Westerduin
AU	D. Cassam	FR	R. Laufer	NZ	M. Jones
AU	R. Clarke	GB	C. Beardon	SE	P. Nilsson
AU	A. Freeman	GB	G. Busby	SE	F. von Scheele
AU	J. Weckert	GB	K.S. Gill	SE	G. Wenngren
BE	J. Berleur	GB	R. Sizer	SE	L. Yngstrom
BE	L. Goffinet *	GB	Y.L. Theng **	TH	P. Methakunavudhi
BE	M. Noirhomme-	GB	H. Thimbleby	US	K. Duncan **
	Fraiture *	GB	C. Zielinski	US	P. Enslow **
BE	M.d'Udekem-Gevers	GR	D. Gritzalis **	US	D. Gotterbarn **
CA	R. Rosenberg	GR	V. Laopodis	US	J. Kizza **
CZ	J. Dolezal **	IE	J. Drumm	US	R. Kling
DE	M.H. Burkert	MY	S. Masduki **	US	J. Lee **

DE	K.-H. Rodiger **	NL	P.M.M. Goossens	US	D. Martin **
DK	L. B. Rasmussen	NL	H.A. Klamet	ZA	A. Morris **
DK	D.S. Stodolsky	NL	M. van Lieshout	ZW	G. Fairall *
ES	P.Barroso-Asenjo	NL	F. van Rijn	ZW	J. Whiley **
ESI	J.M. Sancho Gil				

including SIG 9.2.1 (DISABILITY) and SIG 9.2.2 (FRAMEWORK ON ETHICS)
* Member of SIG 9.2.1 only
** Member of SIG 9.2.2 only

WG 9.3 (HOME ORIENTED INFORMATICS AND TELEMATICS) est. 1988, revised 1989

Chair	**Vice-Chair**	**Secretary**
Dr. A. SLOANE	Mr. R. LING	Mr. G. CRAGG
School of Comp.& Inf. Techn.	Telnor FoU	University of Calgary
Univ. of Wolverhampton	PO Box 83	Faculty of Comm. and Culture
Main Site Campus MU Block	NO-2007 KJELLER	2500 University Drive N. W.
WOLVERHAMPTON WV1 1SB,	Norway	CALGARY, Alberta T2N 1N4
U.K.	Tel. +47 63 848680	Canada
Tel. +44 1902 321445	Fax +47 63 819810	Tel. +1 403 220 4843
Fax +44 1902 321883	e-mail: richard.ling@kjeller.fou.	Fax +1 403 282 6716
e-mail: andy.sloane@computer.org	telenor.no	e-mail: cragg@ucalgary.ca

URL: http://www.hoit.org

AU	P. Jones	GB	L. Haddon	JP	K. Go
BE	C. Dormann	GB	A. Harris	NL	F.van Rijn
BE	Y. Punie	GB	W. Huang	SE	S. Junestrand
DK	K. Bjerg	GB	D. Lawrence	SE	U. Keijer
GB	L. Baillie	GB	A. Monk	SE	L. Sturesson
GB	D. Beynon	GB	T. Proctor	US	A. Venkatesh
GB	K. Buckner				

WG 9.4 (SOCIAL IMPLICATIONS OF COMPUTERS IN DEVELOPING COUNTRIES)
est. 1989

Chair
Dr. C. AVGEROU
Information Systems Dept
London School of Economics
Houghton Str.
LONDON WC2A 2AE, U.K.
Tel. +44 207 955 7627
Fax +44 207 955 7385
e-mail: avgerou@lse.ac.uk

Vice-Chairs
for African Region:
Dr. J. MILLER
Graduate School of Business
Center f. Information Systems
RONDEBOSCH 7700
S. Africa
Tel. + 27 21 4061413
Fax + 27 21 215510
e-mail: jonmil@icon.co.za

for Asian Region:
Dr. R. HARRIS
5/B Angel Court
Ville de Cascade
No. 2 Lai Wo Lane
Shatin, New Territories
HONG KONG, China
e-mail:
harris38@netvigator.com

for Latin America:
Prof. R. 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
Dr. S. MADON
Dept. of Inform. Systems
London School of Economics
Houghton Street
LONDON WC2A 2AE, U.K.
Tel. +44 207 955 7627
Fax +44 207 955 7385
e-mail: s.madon@lse.ac.uk

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

BB	S. Bishop	GB	P. Hall	NG	H. Soriyan
BE	J. Berleur	GB	G. Harindranath	NO	J. Braa
BR	R. La Rovere	GB	R. Heeks	SE	P. Lind
CA	S. Sahay	GB	F. Land	TG	M. Mansaray
CL	R. Baeza-Yates	GB	G. Walsham	UG	N. Mulira
CN	R. Davison	IN	S.C. Bhatnagar	US	E. Roche
DE	J. Meyer-Stamer	IN	V.P. Gulati	VE	G. Rodriguez
FI	M. Korpela	IN	R. Jain	ZA	J. Roode
GB	A. Bada	MX	N. Volkow		

WG 9.5 (APPLICATIONS AND SOCIAL IMPLICATIONS OF VIRTUAL WORLDS)
est. 1989

Chair
Mr. G. CYRANEK
UNESCO Office
ECA New Bldg./Africa Hall
PO Box 1177
ADDIS ABABA, Ethiopia
Tel. +251 1 445422
Fax +251 1 511414
e-mail: g.cyranek@unesco.org

Vice-Chair
Prof. C. BEARDON
University of Plymouth
Exeter School of Arts & Design
Earl Richards Rd. North
EXETER, EX2 6AS, U.K.
Tel. +44 1392 475028
Fax +44 1392 475012
e-mail: c.beardon@plym.ac.uk

Secretary
Ms. L. MALMBORG
Malmo Univ. College
School of Art & Communication
Adelgatan 5
SE-20506 MALMO
Sweden
Tel. +46 40 6657366
e-mail: lone.malmborg@kk.mah.se

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

AT	J. Muehlbacher	CL	R. Baeza Yates	SE	J. Eriksson
BR	I. Capanema	DE	W. Coy	US	R. Pinto da Luz
CA	I. Morgulis	IL	D. Millin	ZA	D. Lockwood
CH	B. Levrat	IT	F. Vietri		

WG 9.6/11.7 (INFORMATION TECHNOLOGY: MIS-USE AND THE LAW)
est. 1990, revised 1992, 2000

Co-Chairs
Prof. Dr. S. FISCHER-HUEBNER
Karlstad University
Department of Computer Science
SE-65188 KARLSTAD
Sweden
Tel. +46 54 700 1723
Fax +46 54 700 1446
e-mail: simone.fischer-huebner@kau.se

Prof. Dr. K. RANNENBERG
Goethe University Frankfurt
Mobile Commerce and Multilateral Security
Graefstrasse 78
DE-60054 FRANKFURT/M.
Germany
Tel.+49 69 798 25301
Fax+49 69 798 25306
e-mail: kai.rannenberg@m-lehrstuhl.de

Vice-Chair
Mr. R. WILLISON
London School of Economics
Information Systems Dept.
Houghton Street
LONDON W2A, U.K.
Tel.+44 171 955 6031
e-mail: r.a.willison@lse.ac.uk

Secretary
Mr. G. WENNGREN
Swedish Defence Research Agency (FOI)
Box 1165
SE-58111 LINKOEPING
Sweden
Tel.+46 13 378 186
Fax+46 13 378 550
e-mail: gunwe@foi.se

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

AU	O. Akindemowo	DE	K. Schier	GB	F. Wamala
AU	P. Argy	ES	J. Davila	HR	S. Stojakovic-Celustka
AU	R. Clarke	ES	J. Lopez		
AU	A. Freeman	FI	J. Paavilainen	IT	G. Iachello
AU	A. Willis	FR	P. Le Clech	NL	H. Kaspersen
AT	M. Latzenhofer	FR	H. Marty-Vrayance	PL	M. Golinski

AT	A. Zuccato	GB	R. Burnett	RU	V. Naumov
BE	B. Spruyt	GB	R. Fawzi	RU	Y.A. Timofeev
BG	N. Ognyanova	GB	K. Lindup	SE	H. Andersson
CH	B. Lehmann	GB	C. Raab	SE	F. Bjoerck
CZ	D. Brechlerova	GB	P. Randle	SE	K. Naeckros
CZ	C. Halbich	GB	R. Sizer	SE	L. Yngstrom
DE	A. Broemme	GB	A. Smith	SK	D. Olejar
				SK	J. Vyskoc

WG 9.7 (HISTORY OF COMPUTING) est. 1992

Chair
Prof. J.IMPAGLIAZZO
Dept. of Computer Science
Hofstra University
HEMPSTEAD
NY 11549-1000, U.S.A.
Tel. +1 516 463 6774
Fax +1 516 463 5790
e-mail: john.impagliazzo@hofstra.edu

Vice-Chair
Mr. G. VERROUST
86 rue du Cherche-Midi
FR-75006 PARIS, France
Tel.:+33 1 45440594
e-mail:
verroust@wanadoo.fr

URL: http://www.comphist.org

AT	H. Zemanek	CA	M. Williams	NL	W.L. van der Poel
AU	J.M. Bennett	GB	A.S. Douglas	US	J.A.N. Lee

WG 9.8 (WOMEN AND INFORMATION TECHNOLOGY) est. 2001

Chair
Prof. V. OECHTERING
Universitaet Bremen
FB Mathematik & Informatik
PF 330440
DE-28334 BREMEN, Germany
Tel. +49 421 218 2701
Fax +49 421 218 4322
e-mail: oechteri@informatik.uni-bremen.de

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

AT	M. Pohl	DE	B. Schinzel	NG	H.A. Soriyan *
AU	A. Craig *	DE	H. Schelhowe	NL	C. Creutzen
AU	L. von Hellens	GB	A. Adam	NL	S. Janssen
AU	S. Myburgh	GB	E. Green	NL	E. C.J. van Oost
AU	P. Roberts	GB	F. Grundy *	NP	S.S. Khati *
AU	T. Robertson	GB	G. Michaelson	NO	T. Hapnes
AU	A. Scollarly	GB	E. Turner	SE	M. Vehvilainen
				US	S. Smith *

*) regional coordinators

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.

Chair

Prof. F.J. RAMMIG, DE
Paderborn University
Heinz Nixdorf Institut
Practical Computer Science
Fuerstenallee 11
DE-33102 PADERBORN
Germany
Tel. +49 5251 606500
Fax +49 5251 606502
e-mail: franz@uni-paderborn.de

Vice-Chairs

Prof. T. 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. D. 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

Secretary

Dr. B. ESCHERMANN, CH
ABB Schweiz AG
Corporate Research
Segelhof, Postfach
CH-5405 BADEN-DAETTWIL
Switzerland
Tel. +41 58 586 8411
Fax +41 58 586 5561
e-mail: bernhard.eschermann@ch.abb.com

URL: http://www.dit.upm.es/~cdk/org/ifip/tc10.html

AT	F. Pichler	ES	C. Delgado-Kloos	PL	J. Klamka
AR	P. Borensztejn	FI	P. Pulli	PT	L. M. Silveira
BE	E. Dirkx	FR	J.C. Laprie	RU	A. Stempkovsky
BG	V. Lazarov	GB	N. Topham	SE	J.Torin
BR	R. Reis	GR	V. Goudela	SI	M. Krisper
CN	G. Li	HU	I. Erényi	SK	N. Fristacky
CZ	M. Ceska	NL	H.J. Sips	US	M. Valero (ACM)
DK	J. Madsen	NO	O. Landsverk	ZA	H. Neishlos

ex-officio members: WG Chairs

WG 10.1 (COMPUTER-AIDED SYSTEMS THEORY) est. 1994

Chair
Mr. C. RATTRAY
Dept. of Comp. Science & Math.
University of Stirling
STIRLING,
FK9 4LA, U.K.
Tel. +44 1786 467429
Fax +44 1786 464551
e-mail: cr@cs.stir.ac.uk

AT	H. Prähofer	ES	R. Moreno-Diaz	US	P. Fishwick
AU	D.H. Kieronska	FI	P. Pulli	US	G.J. Klir
DE	G. Schweizer	IT	G. Guariso	US	J. Rozenblit
DE	B. Thomé	PL	W. Jacak		

WG 10.3 (CONCURRENT SYSTEMS) est. 1978, revised 1979, 1988

Chair
Dr. K. EBCIOGLU
IBM T.J. Watson Research Center
Route 134 - PO Box 128
YORKTOWN HEIGHTS, NY 10598 U.S.A.
Tel. +1 914 784 6501
Fax +1 914 784 7455
e-mail: kemal@us.ibm.com

Vice-Chair
Dr. N.P. TOPHAM
Dept. of Comp. Science
University of Edinburgh
King's Buildings,
Mayfield Rd.
EDINBURGH EH9 3JZ, U.K.
Tel. +44 131 6505171
Fax +44 131 6677209
e-mail: npt@dcs.ed.ac.uk

Secretary
Prof. E. DIRKX
Fac. Toegepaste Wetenschappen
Vrije Universiteit Brussels
Dienst Informatica
Pleinlaan 2
B-1050 BRUSSELS, Belgium
Tel. +32 2 629 2968
Fax +32 2 629 2870
e-mail: efdirkx@info.vub.ac.be

URL: http://parallel.vub.ac.be/~efdirkx/ifip_10_3.html

AU	A.L. Wendelborn	FR	U. Finger	NZ	C. Jesshope
BG	V.D. Lazarov	FR	B. Folliot	RU	N.N. Mirenkov
BR	S. W. Song	FR	C. Girault	SE	G. Carlstedt
CA	M.W. Gentleman	FR	M. Raynal	US	N. Bagherzadeh
CA	G.M. Silberman	GB	A.J.G. Hey	US	R.H. Campbell
CH	H. Burkhart	GB	R. Ibbett	US	J. Dongarra
CY	M. Evripidou	GB	R. Perrott	US	G.A. Feustel
DE	Th. Bemmerl	IN	V.P. Bhatkar	US	G. Gao
DE	A. Bode	IT	F. Baiardi	US	J.L. Gaudiot
DE	E. Maehle	IT	M. Vanneschi	US	D. Reed
ES	R. Puigjaner	JP	M. Amamiya	US	B. Samadi
FR	M. Cosnard	NL	G.L. Reijns	US	B.A. Sanders

WG 10.4 (DEPENDABLE COMPUTING AND FAULT-TOLERANCE) est. 1980, revised 1988

Chair
Dr. J. ARLAT
LAAS-CNRS
7, ave. du Colonel Roche
FR-31077 TOULOUSE CEDEX
4, France
Tel. +33 5 6133 6233
Fax:+33 5 6133 6411
e-mail: jean.arlat@laas.fr

Vice-Chairs
Prof. T. NANYA
Univ.of Tokyo
Research Center for Advanced
Science and Technology
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. W. SANDERS
Univ.of Illinois at Urbana-Champaign
CRHC-Coord.Science Lab.
1308 West Main St.
URBANA, IL 61801-2307, U.S.A.
Tel. +1 217 333 0345
Fax +1 217 244 3359
e-mail: whs@crhc.uiuc.edu

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

AT	H. Kopetz	JP	H. Ihara	US	F. Jahanian
AT	S. Poledna	JP	Y. Koga	US	W.C. Jones *
BR	E. Martins	JP	Y. Tohma	US	K.H. Kim
DE	M. Dal Cin	PT	H. Madeira	US	P. Koopman
DE	G. Heiner	PT	P. Verissimo	US	J.H. Lala
DE	U. Voges	SE	N. Suri	US	C.E. Landwehr
FR	S. Budkowski	SE	J. Torin *	US	R.A. Maxion
FR	A. Costes	US	J. Abraham	US	E.J. McCluskey
FR	K. Kanoun	US	A. Avizienis *	US	J.F. Meyer *
FR	J.C. Laprie	US	N. Bowen	US	D.A. Rennels
FR	G. LeLann	US	R. Chillarege	US	A.S. Robinson
FR	D. Powell	US	Ch. Fetzer	US	J. Rushby
GB	T. Anderson	US	W. Fuchs	US	R.D. Schlichting
GB	B. Littlewood	US	G.C. Gilley *	US	D.P. Siewiorek
GB	B. Randell *	US	J. Goldberg *	US	B. Smith
GB	L. Strigini	US	A. Goyal	US	K.S. Trivedi
IT	A. Bondavalli	US	W. Heimerdinger	US	C.J. Walter
IT	M. Morganti	US	W.E. Howden	US	C.B. Weinstock
IT	L. Simoncini	US	R.K. Iyer	US	Y. C. Yeh

* member emeritus

WG 10.5 (DESIGN AND ENGINEERING OF ELECTRONIC SYSTEMS)
est. 1981, revised 1988, merged with WG 10.2 in 1994

Chair
Prof. Dr. F. R. WAGNER
Univ.Federal do Rio Grande do Sul
Inst. de Informatica
Caixa postal 15064
BR-91501-970 PORTO ALEGRE, RS
Brazil
Tel. +55 51 3316 6231
Fax +55 51 3316 7308
e-mail: flavio@inf.ufrgs.br

Vice-Chairs
Prof. N.D. DUTT
Inf. & Computer Science
Univ. of California at Irvine
IRVINE, CA 92697-3425, U.S.A.
Tel. +1 949 824 7219
Fax +1 949 824 8019
e-mail: dutt@ics.uci.edu

Prof. M. IMAI
VLSI System Design Laboratory
Dept.of Informatics & Math.Science
Osaka University
1-3 Machikane-yama, Toyonaka
OSAKA 560-8531, Japan
Tel.+ 81 6 8506623
Fax +81 6 8506627
e-mail: imai@ics.es.osaka-u.ac.jp

Prof. E. VILLAR
University of Cantabria
Dept. of Electronics, Automatics and System Engineering
Avda. Los Castros, s/n
ES-39005 SANTANDER, Spain
Tel. +34 942 201 398
Fax +34 942 201 873
e-mail: villar@teisa.unican.es

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

AU	G. Hellestrand	DE	P. Schwarz	RU	A.L. Stempkovsky
AU	G.J. Milne	ES	C. Delgado Kloos	SK	N. Fristacky
AU	A. Postula	FR	F. Anceau	TW	J.-Y. Jou
BE	L. Claesen	FR	P. Bakowski	US	M.R. Barbacci
BR	R.Reis	FR	D. Borrione	US	F. Brglez
CA	D. Agnew	FR	A. Jerraya	US	R. Camposano
CA	E. Cerny	FR	J. Mermet	US	E.M. Clarke Jr.
CA	D. Gale	FR	M. Robert	US	J.P. Damore
CA	P. Paulin	GB	M. Edwards	US	J.A. Darringer
DE	K. Antreich	GB	P. Ivey	US	G. Gopalakrisnan
DE	W. Damm	GB	G. Musgrave	US	W. A. Hunt Jr.
DE	K.-H. Diener	GB	J. Willis	US	S.D. Johnson
DE	H. Eveking	GR	O. Koufopavlou	US	D. Luckham
DE	M. Glesner	IT	D. Sciuto	US	G. De Micheli
DE	W. Grass	JP	M. Fujita	US	R.A. Newton
DE	R.W. Hartenstein	JP	O. Karatsu	US	H. Ofek
DE	K. Mueller-Glaser	JP	A. Yamada	US	P.A. Subrahmanyam
DE	W. Nebel	KR	K. Choi	US	R. Waxman
DE	R. Piloty	NO	E. Aas	US	J. Willis
DE	F.J. Rammig	PL	A. Pawlak	US	W. Wolf
DE	W. Rosenstiel	PT	L.M. Silveira		

TC 11 (SECURITY AND PROTECTION IN INFORMATION PROCESSING SYSTEMS)
est. 1984

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 frame of reference for security common to organisations, professionals and the public;
- the promotion of security and protection as essential parts of information processing systems.

Chair
Mr. L. STROUS, NL
De Nederlandsche Bank
Payment Systems Policy Department
Westeinde 1
NL-1017 ZN AMSTERDAM
The Netherlands
Tel. +31 20 524 2748
Fax +31 20 524 2513
e-mail: strous@iaehv.nl

Vice-Chair
Prof. Dr. K. RANNENBERG, DE
Goethe University Frankfurt
Mobile Commerce and Multilateral Security
Graefstrasse 78
D-60054 FRANKFURT/MAIN
Germany
Tel.+49 69 798 25301
Fax+49 69 798 25306

Secretary
Mr. G. FAIRALL, ZW
PO Box 2183
HARARE
Zimbabwe
Tel. +263 4 250489
Fax +263 4 708861
e-mail: geoff@csz.org.zw

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

AT	R. Posch	FR	M. Dupuy	SG	L.K. Yan
AU	W. Caelli	GB	W. List	SI	T. Welzer
AU	V. Varadharajan	GR	D. Gritzalis	SK	J. Vyskoc
BE	B. De Decker	HU	G. Papp	TN	M. Miled
CH	S. Teufel	IN	C. R. Chakravarthy	US	W.H. Ware (ACM)
CN	S. Qing	IT	P. Samarati	US	Y. Deswarte (IEEE)
DE	H. Pohl	JP	R. Sasaki	ZA	J. Eloff
DK	J. Knudsen	PL	A. Grzywak	ZA	S.H. von Solms
ET	M.T. El-Hadidi	PT	L.S. Cardoso	ZA	R. von Solms
FI	J. Miettinen	SE	L. Yngstrom		

ex-officio member: WG Chairs

WG 11.1 (INFORMATION SECURITY MANAGEMENT) est. 1985, revised 1992

Chair
Dr. M. WARREN
Deakin University
School of Computing & Mathematics
Room SD 137
Geelong
VICTORIA 3217, Australia
Tel. +61 3 5227 2536
Fax +61 3 5227 2028
e-mail: mwarren@deakin.edu.au

Secretary
Mr. R. BOTHA
Port Elizabeth Technikon
Fac.of Computer Studies
Private Bag X6011
PORT ELIZABETH 6000
South Africa
Tel. +27 41 504 3669
Fax +27 41 504 3313
e-mail: reinhard@ml.petech.ac.za

URL: http://www.cm.deakin.edu.au/ifip/

AU	D. Longley	NL	M. Spruit	SE	G. Wahlgren
DK	J. Knudsen	NZ	L. Janczewski	ZA	B. Louwrens
GB	J. Davey	NZ	B. Rosenberg	ZA	R. von Solms

WG 11.2 (SMALL SYSTEM SECURITY) est. 1985, revised 1992, 1995

Chair
Ir. J. VERSCHUREN
TNO-EIB
PO Box 5013
NL-2600 GA DELFT
Netherlands
Tel. +31 15 269 2351
Fax +31 15 269 2111
e-mail: verschuren@tpd.tno.nl

Vice-Chair
Dr. H. BOOYSEN
PO Box 40997
Moreleta Park
PRETORIA, South Africa
Tel. +27 12 3114745
Fax +27 12 3114609
e-mail: booyseha@telkom.co.za

Secretary
Prof. L. LABUSCHAGNE
Rand Afrikaans University
PO Box 524
AUCKLAND PARK 2006
South Africa
Tel. +27 11 489 3335
Fax +27 11 489 2138
e-mail: ll@na.rau.ac.za

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

AT	R. Posch	SG	H. Adhiyatma	SG	O. Tian
AU	W.J. Caelli	SG	M.H. Goh	SG	W. Wang
AU	J. Cooper	SG	G.M. Heng	SG	J.T.H. Yong
AU	D. Fink	SG	K.Y. Lam	SG	Ch.S. Yu
AU	D. Kleeman	SG	J. Lee	US	J.O. Cherrington
AU	R. Learmonth	SG	Y.B. Lim	US	H.M. Chung
AU	Pattinson	SG	U.-K. Lim-Khor	US	R.W. Eaves
AU	M.L. Singh	SG	H.N. Ny	US	K.A. Forcht
AU	A.C. Watson	SG	R.S.H. Poh	US	Y-C. Ho
CA	D. Batchelor	SG	C. Soh	US	M.S. King
CA	R.G. Craig	SG	B.W. Tan	US	A.J. Marcella
DK	D.S. Stodolsky	SG	G. Tan	US	F.L. Neumann
GB	J.P. Backhouse	SG	W.G. Tan	US	N. Pendegraft
GB	P. Dosaj	IL	A. Hayam	US	J. Reinfelds
NZ	J.G. Beatson			ZA	J. Eloff

WG 11.3 (DATA AND APPLICATION SECURITY) est. 1987, revised 2001

Chair
Prof. P. SAMARATI
Universita degli Studi di Milano
Dipartimento di Scienze
dell'Informazione
Polo Didattico e di Ricerca di Crema
Via Bramante 65
IT-26013 CREMA, Italy
Tel. +39 0373 898229
Fax +39 0373 898253
e-mail: samarati@dti.unimi.it

URL: http://sansone.crema.unimi.it/~ifip113/

AT	W. Essmayr	NL	W. G. Teepe	US	A. A. Madoukh
AU	Y. Bai	US	V. Atluri	US	D. Marks
AU	Z. Tari	US	S. J. Bauer	US	C. McCollum
CA	C. Ionita	US	L. Binns	US	J. McDermott
CA	M. Nyanchama	US	R. Burns	US	C.A. Meadows
CA	S.R. de M. Oliveira	US	J. Campbell	US	J.B. Michael
CA	S. Osborn	US	L. Chang	US	R. Miller
CH	K. Dittrich	US	C. Y. Chung	US	M. Morgenstern
CH	D. Jonscher	US	L. Cox	US	I. Moskowitz
CN	X. Zuo	US	S. Demurjian	US	R. Mukkamala
DE	J. Biskup	US	P. Devanbu	US	L. Notargiacomo
DE	H. Brüggemann	US	C. Farkas	US	J. O'Connor
DE	Y. Karabulut	US	E.B. Fernandez	US	S. Pal
DE	T. Leineweber	US	J. Filsinger	US	B. Panda
DE	A. Lubinski	US	M. Gertz	US	T. Parenty
DE	G. Pernul	US	A.K. Ghosh	US	J. S. Park
DE	A. Spalka	US	R. Goel	US	S. Qian
ES	M. Oliva	US	J. Hale	US	Indrajit Ray
FR	J. Carrere	US	B. Hartman	US	Indrakshi Ray
FR	F. Cuppens	US	R. Henning	US	A. Rosenthal
FR	A. Gabillon	US	W.R. Herndon	US	R. Sandhu
GB	S. Barker	US	T. Hinke	US	M. Schaefer
GB	J. Dobson	US	H. Hosmer	US	S. Shenoi
GB	K. Moody	US	M.-Y. Hu	US	G.W. Smith
GB	S. Wiseman	US	W.-K. Huang	US	S. Son
GR	I. Mavridis	US	S. Jajodia	US	D. Spooner
GR	G. Pangalos	US	H. M. Jamil	US	G. Steinke
IL	E. Gudes	US	T. Johnsten	US	L. Sweeney
IN	K. Subramanian	US	A. Kanawati	US	R. Thomas
IT	F. Bergadano	US	S. Kandala	US	D. Thomsen
IT	E. Bertino	US	M. Kang	US	B. Thuraisingham
IT	S. Castano	US	T. Keefe	US	T.C. Ting
IT	E. Damiani	US	R. Kemmerer	US	T.S. Toland
IT	E. Ferrari	US	C.E. Landwehr	US	D. Wijesekera
LB	M. Khair	US	T.Y. Lin	US	M. Winslett
NL	W. Gerhardt	US	P. Liu	ZA	L. Dreyer
NL	R. P. v.d. Riet	US	G. Lorenz	ZA	M. Olivier
NL	R. Serban	US	T. Lunt		

WG 11.4 (NETWORK SECURITY) est. 1985, revised 1992

Chair
Prof. B. de DECKER
Katholieke Universiteit Leuven
Computer Science Dept.
Celestijnenlaan 200A
B-3001 LEUVEN (HEVERLEE)
Belgium
Tel.: +32 16 327633
Fax: +32 16 327996
e-mail: bart.dedecker@cs.kuleuven.ac.be

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

AT	R. Gronvins	GR	A. Kefala	US	M. Bishop
AU	L. O'Connor	GR	K. Moulinos	US	L. Fraim
CH	R. Oppliger	GR	N. Nikitakos	US	R. Moulton
DE	A. Pfitzmann	GR	E. Polidorou	US	F. O'Reilly
DE	K. Rannenberg	NZ	A. Mason	US	G. Schultz
EG	M. El-Hadidi	SE	O. Dridi	US	G. Spafford
GB	S. Furnell	US	M. Anderson	ZA	S.H. von Solms
GR	V. Daskalou	US	R. Atkinson		

WG 11.5 (SYSTEMS INTEGRITY AND CONTROL) est. 1987, revised 1989, 1991

Chair
Prof. Dr. S. JAJODIA
George Mason University
Center for Secure Inf. Syst.
Dept. of Inf. & Software Eng.
Mail Stop 4A4
FAIRFAX, VA 22030-4444, USA
Tel. +1 703 993 1653/1640
Fax +1 703 993 1638
e-mail: jajodia@gmu.edu

Vice-Chair
Prof. M. GERTZ
University of California
Dept. of Computer Science One
Shields Avenue
DAVIS, CA 95616, USA
Tel.: + 1 530 752 6468
Fax: +1 530 752 4767
e-mail: gertz@cs.ucdavis.edu

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

AU	A. Anderson	GB	J. Court	NL	L.A.M. Strous
AU	H. James	GB	C. Holloway	NO	O. Christoffersen
CA	D. Batchelor	GB	W. List	NZ	J.G. Beatson
CZ	M. Dvorak	GB	R. Melville	NZ	G. Loo
CZ	V. Matyas	GR	N.Anagnostopoulos	NZ	A. Peiris
DE	K. Schroeder	GR	C. Christopoulos	SE	L. Schuessler
DK	J. Carlsen	GR	P. Dellios	SE	L. Yngstrom
DK	J. Knudsen	GR	L. Lambropoulos	US	M. Abrams
DK	K. Kristiansen	HU	J. Brehel	US	K. Krueger
FI	H. Rasilainen	LB	M. Khair	US	R. Moeller
FI	M. Tenhunen	NL	F. Hoek	US	C. Sekaran
FR	M. Dupuy	NL	A.-P. Schipper	US	L. Taylor
FR	M. Laurent	NL	R.van der Riet	US	W. Ware
GB	D. Brewer	NL	P. Saasen		

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

WG 11.8 (INFORMATION SECURITY EDUCATION) est. 1991

Chair
Dr. H. ARMSTRONG
Curtin University of Technology
School of Information Systems
GPO Box U1987
PERTH 6845
Western Australia
Tel. +61 8 9266 7017
Fax +61 8 9266 3076
e-mail: h.armstrong@curtin.edu.au

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

TC 12 (ARTIFICIAL INTELLIGENCE) est. 1989, revised 1991

AIMS
Research in AI and promotion of interdisciplinary exchange between AI and other fields of information processing.

SCOPE

- Further develop the foundation for AI on the basis of computer science principles.
- Contribute techniques from AI to the enrichment of computer science and information processing.
- Develop AI techniques as part of information processing technologies to enable and advance practical applications.

Chair
Prof. B. NEUMANN, DE
Dept. of Comp. Science
Universität Hamburg
Vogt-Koelln-Str. 30
D-22527 HAMBURG,
Germany
Tel. +49 40 42883 2451
Fax +49 40 42883 2572
e-mail: neumann@informatik.
uni-hamburg.de

Vice Chairs
Prof. S. DOSHITA, JP
Ryukoku University
Dept. of Electronics and Informatics
Faculty of Science and Technology
Yokotani 1 - 5, Seta-Ohe
OTSU 520-2194, Japan
Tel. +81 77 543 7407
Fax +81 77 543 7420
e-mail:
doshita@rins.ryukoku.ac.jp

Prof. J. GLASGOW, CA
Queens Univ.
Dept. of Comp. & Inf.
KINGSTON,
ON K7L 3N6, Canada
e-mail:
janice@qucis.queensu.ca

Secretary
Prof. D. O'LEARY, US/IEEE
Univ.of South.California
Leventhal School of Accounting
Marshall School of Business
3660 Trousdale Parkway
LOS ANGELES, CA 90089-1421
U.S.A.
Tel. +1 213 740 4856
Fax +1 213 747 2815
e-mail:
doleary@marshall.usc.edu

URL: http://www.usc.edu/dept/sba/atisp/AI/TC-12/

AR	A. Amandi	GB	M. Bramer	SE	E. Sandewall
AT	W. Horn	GR	C. Spyropoulos	SG	T. Gor-Kim
AU	J. Debenham	HU	I. Futo	SI	M. Gams
BG	V. Sgurev	IN	M. Sasikumar	SK	P. Navrat
CLEI	J. Ramirez	IT	L. Carlucci-Aiello	SK	M. Popper
CN	Z. Shi	NO	A. Aamodt	TN	M. Marrakchi
CZ	O. Stepankova	NZ	N. Kasabov	US	S. Shapiro (ACM)
DK	B. Mayoh	PL	Z. Bubnicki	US	D. O'Leary (IEEE)
FI	T. Honkela				

ex-officio members: WG Chairs

WG 12.5 (KNOWLEDGE-ORIENTED DEVELOPMENT OF APPLICATIONS) est. 1993

Chair	**Vice-Chair**	**Secretary**
Prof. M. MUSEN Stanford University Medical School Office Bldg., room 215 251 Campus Drive STANFORD, CA 94305-5479, U.S.A. Tel. +1 650 725 3390 Fax.+1 650 725 7944 e-mail: musen@smi.stanford.edu	Prof. R. STUDER Universitaet Karlsruhe Inst.f.Applied Informatics PO Box 6980 D-76128 KARLSRUHE, Germany Tel. +49 721 608342 Fax +49 721 693717 e-mail: studer@aifb.uni-karlsruhe.de	Dr. R. BENJAMINS Intelligent Software Components, S.A. Alcobendas ES-28100 MADRID, Spain Tel. +34 91 661 7709 Fax +34 91 661 6365 e-mail: richard@isoco.com

EG	S. Abdelbadeeh	NL	H. Akkermans	US	B. Chandrasekaran
ES	A. Garcia	NL	J. Treur	US	J. Sticklen
FR	Y. Demazeau	PT	E. Oliveira	US	B. Swartout
GB	N. Shadbolt	SI	I. Bratko	US	M.C. Tanner
JP	R. Mizoguchi				

WG 12.6 (INTELLIGENT INFORMATION MANAGEMENT) est. 1998

Chair
Prof. D. O'LEARY
Univ.of South.California
Leventhal School of Accounting
Marshall School of Business
LOS ANGELES, CA 90089-1421
U.S.A.
Tel. +1 213 740 4856
Fax +1 213 747 2815
e-mail: doleary@marshall.usc.edu

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 "humani-zation" 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.).

Chair
Dr. J. KARAT, US (ACM)
IBM
T.J. Watson Research Ctr.
30 Saw Mill River Road
HAWTHORNE, NY 10532
Tel. +1 914 784 7832
Fax +1 914 784 6032
e-mail: jkarat@watson.ibm.com

Vice-Chair
Dr. L. OESTREICHER, SE
Uppsala University
Dept.of Inf. Science
PO Box 513
S-75120 UPPSALA, Sweden
Tel. +46 18 4711019
Fax +46 18 521270
e-mail: larsoe@dis.uu.se

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

AT	T. Gross	DK	A.M. Pejtersen	NL	G.C. van der Veer
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CN	L. Zhengjie	IN	V.K. Hassan	ZA	J. Wesson
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DE	H. Oberquelle				

ex-officio members: WG Chairs

WG 13.1 (EDUCATION IN HCI and HCI CURRICULA) est. 1990, revised 1991

Chair
Prof. M. RAUTERBERG
Technical Univ.of Eindhoven
Faculty Industrial Design
Center f. User-System
Interaction (IPO)
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

Secretary
Prof. T. HEWETT
Dept. Psych. Soc. Anthro. Drexel
University
PHILADELPHIA,
PA 19104, U.S.A.
Tel. +1 215 895 2461
Fax +1 215 895 1333
e-mail: hewett@drexel.edu

URL: http://www.ipo.tue.nl/ifip-wg13.1/

AU	P. Collings	GB	D. Economou	SE	L. Oestreicher
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AU	M. Toleman	IT	S. Bagnara	US	J. Konstan
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ES	J. Lores	NL	G. van der Veer	ZA	P. Kotze
GB	K.D. Eason	PL	M. Sikorski		

WG 13.2 (METHODOLOGY FOR USER-CENTRED SYSTEM DESIGN) est. 1992

Chair
Dr. J. GULLIKSEN
Uppsala University
Dept. for Human Computer
Interaction
Box 337
SE-751 05 UPPSALA
Sweden
Tel. +46 18 471 2849
Fax +46 18 471 7811
e-mail: jan.gulliksen@hci.uu.se

Vice-Chair
Prof. J.M. CARROLL
Dept.of Computer Science
660 Mc Bryde Hall
Virginia Tech.
(VPI & SU)
BLACKSBURG,
VA 24061-0106, U.S.A.
Tel. +1 540 231 8453
Fax +1 540 231 6075
e-mail: carroll@cs.vt.edu

Secretary
Prof. D. BENYON
Napier University
Dept.of Computer Studies
219 Colinton Road
EDINBURGH EH10 5DT, U.K.
e-mail:
d.benyon@dcs.napier.ac.uk

DE	W. Beuschel	GB	A. Sutcliffe	SE	B. Sandblad
DE	M. Tauber	IT	F. Paterno	US	R. Brooks
DK	A.M. Pejtersen	JP	E. Kuwana	US	G. Casaday
FR	P. Palanque	NL	G. de Haan	US	S. Kaplan
GB	S. Harker	SE	J. Gulliksen	US	J. Karat
GB	A. MacLean				

WG 13.3 (HUMAN-COMPUTER INTERACTION AND DISABILITY) est. 1992, revised 1994, 2001

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

Secretary
Ms. C. NICOLLE
Loughborough University
HUSAT Research Institute The
Elms, Elms Grove,
LOUGHBOROUGH, LE11 1RG,
U.K.
Tel. +44 1509 611 088
Fax.+44 1509 234 651
e-mail: c.a.nicolle@lboro.ac.uk

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

AU	R. Pedlow	GB	N. Alm	NL	F.L. Van Nes
BE	A. de Baenst	GB	G. Busby	NO	K. Nordby
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ES	J. Abascal	GR	J. Darzentas	US	M. Tucker
FI	I. Saarnio	NL	M. Soede	US	G.C. Vanderheiden

WG 13.4 (joint with WG 2.7)

WG 13.5 (HUMAN ERROR, SAFETY AND SYSTEM DEVELOPMENT) est. 1998

Chair
Prof. C.W. JOHNSON
Univ. of Glasgow
Dept.of Computing Science
Lillybank Gardens
GLASGOW, G12 8QQ
U.K.
Tel. +44 141 330 6053
Fax +44 141 330 4913
e-mail: johnson@dcs.gla.ac.uk

Secretary
Dr. P. PALANQUE
Universite Toulouse 1, LIHS
Place Anatole France
F-31042 TOULOUSE Cedex
France
Tel. +33 561 63 3588
Fax +33 561 63 3798
e-mail: palanque@univ-tlse1.fr

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		

SG 16 (SPECIALIST GROUP ON ENTERTAINMENT COMPUTING) est. 2002

AIMS (provisional)

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 (provisional)

(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

Chair
Prof. R. NAKATSU
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@atr.co.jp

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IFIP PUBLICATIONS

IFIP Publisher:
Ms. Yana LAMBERT
IFIP Editor
Kluwer Academic Publishers
101 Philip Drive
Norwell, MA 02061, U.S.A.
Tel: +1 781 681-0604
Fax: +1 781 871-7507
E-mail: yana.lambert@wkap.com

IFIP Publications Committee Chair (interim):
Prof. J. LEE
Dept.of Comp.Science, Virginia Tech
Blacksburg, VA 24061-0106, U.S.A.
Tel. +1 540 231 5780
Fax +1 540 231 6075
e-mail: janlee@cs.vt.edu

IFIP Contracts Officer:
Mr. P. NEDKOV
IFIP Secretariat
Hofstrasse 3
A-2361 LAXENBURG, Austria
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Fax +43 2236 736169
e-mail: nedkov@ifip.or.at

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