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International Federation for Information Processing

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

INTRODUCTION

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

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

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

Access may be obtained as follows:

URL: http://www.ifip.org

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IFIP's MISSION STATEMENT

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

Principal Elements

1. To stimulate, encourage and participate in research, development and application of Information Technology (IT) and to foster international co-operation in these activities.

2. To provide a meeting place where national IT Societies can discuss and plan courses of action on issues in our field which are of international significance and thereby to forge increasingly strong links between them and with IFIP.

3. To promote international co-operation directly and through national IT Societies in a free environment between individuals, national and international governmental bodies and kindred scientific and professional organizations.

4. To pay special attention to the needs of developing countries and to assist them in appropriate ways to secure the optimum benefit from the application of IT.

5. To promote professionalism, incorporating high standards of ethics and conduct, among all IT practitioners.

6. To provide a forum for assessing the social consequences of IT applications; to campaign for the safe and beneficial development and use of IT and the protection of people from abuse through its improper application.

7. To foster and facilitate co-operation between academics, the IT industry and governmental bodies and to seek to represent the interest of users.

8. To provide a vehicle for work on the international aspects of IT development and application including the necessary preparatory work for the generation of international standards.

9. To contribute to the formulation of the education and training needed by IT practitioners, users and the public at large.

IFIP IN PERSPECTIVE

Origins

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

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

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

Membership

Today IFIP has 52 organizations as Full Members, 2 Corresponding Members and 4 Affiliate Members, representing countries from all regions of the world.

Organisation

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

Congresses and Major Conferences

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

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

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

Technical Activities

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

Publications

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

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Zweigniederlassung der Springer-Verlag GmbH, Berlin
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D-69121 Heidelberg

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IFIP News

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

Relationships

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

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

IFIP Secretariat

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

IFIP COUNCIL

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

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

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

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

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

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

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est. 1989 as SG14 / approved in 9/96 as TC 1 Aims and Scopes
URL: http://www.kb.ecei.tohoku.ac.jp/IFIP-TC1/

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WG 1.1 - Continuous Algorithms and Complexity

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WG 1.2 - Descriptional Complexity

est. 1992 Aims and Scopes
URL: http://psc.informatik.uni-frankfurt.de/ifip-wg1.2/

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WG 1.3 - Foundations of Systems Specification

est. 1992 Aims and Scopes
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WG 1.4 - Computational Learning Theory

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WG 1.5 - Cellular Automata and Discrete Complex Systems

est. 1994, dissolved 2004, re-established 2008 Aims and Scopes

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WG 1.6 - Term Rewriting

est. 1998 Aims and Scopes
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WG 1.7 Theoretical Foundations of Security Analysis and Design

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TC 2 - SOFTWARE: Theory and Practice

est. 1962, revised 1982, 1990 Aims and Scopes
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WG 2.1 - Algorithmic Languages and Calculi

est. 1962, revised 1963, 1990, 1992 Aims and Scopes
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WG 2.2 - Formal Description of Programming Concepts

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WG 2.4 - Software Implementation Technology

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WG 2.5 - Numerical Software

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WG 2.6 - Database

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WG 2.8 - Functional Programming

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WG 2.9 - Software Requirements Engineering

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WG 2.10 - Software Architecture

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WG 2.11- Program Generation

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WG 2.12/12.4 - Web Semantics

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WG 2.13 – Open Source Software

est. 2006 Aims and Scopes
URL: http://www.ifip.org/wg-2.13

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TC 3 - Education

est. 1963, revised 1992, 1995, 1998 Aims and Scopes
URL: http://www.ifip-tc3.net/

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*) Special Consultant

WG 3.1 (Informatics and ICT in Secondary Education)

est. 1966, revised 1998, 2008 Aims and Scopes
URL: http://www.die.informatik.uni-siegen.de/ifip-wg31

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WG 3.2 (Informatics and ICT in Higher Education)

est. 1968, revised 1981,1989,1998 Aims and Scopes
URL: http://www.cs.brynmawr.edu/wg3.2/index.html

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WG 3.3 (Research on Education Applications of Information Technologies)

re-est. 1988, revised 2004 Aims and Scopes
URL: http://www.ifipwg3-3.org/

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WG 3.4 (Professional and Vocational Education for the Information and Communication Technology ICT Sector)

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

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WG 3.5 (Informatics and Digital Technologies in Elementary Education)

est. 1983, 2008 Aims and Scopes
URL: http://ifip35.inf.elte.hu/

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WG 3.6 (Distance Education)

est. 1987 Aims and Scopes
URL: http://education.deakin.edu.au/ifipwg3.6/Default.htm

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WG 3.7 (Information Technology in Educational Management)

est. 1996 Aims and Scopes
URL: http://item.wceruw.org/

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WG 3.8 (Lifelong Learning)

est. 2008 Aims and Scopes
URL: http://www.embc.uk.com/ifiptc3lll/Default.aspx

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SIG 3.9 (Special Interest Group on Digital Literacy)

est. 2007 Aims and Scopes
URL: http://www.educanext.org; http://www.ifip-tc3.net

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TC 5 - Information Technology Applications

est. 1970, revised 2004 Aims and Scopes
URL: http://gandalf.crle.uoguelph.ca/IFIP_TC5/

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WG 5.1 Global Product Development for the whole life-cycle

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

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WG 5.4 Computer Aided Innovation
est. 2005 Aims and Scopes
URL: http://www.computeraidedinnovation.net/

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WG 5.5 Co-operation Infrastructure for Virtual Enterprises and Electronic Business - "COVE"

est. 2001 Aims and Scopes
URL: http://www.uninova.pt/~cove

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WG 5.7 Advances in Production Management Systems

est. 1978, revised 1986, 1989, 2000, 2008 Aims and Scopes
URL: http://www.ifipwg57.polimi.it/

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WG5.8 Enterprise Interoperability

est.2006, revised 2008 Aims and Scopes

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WG 5.10 Computer Graphics and Virtual Worlds

est. 1987, revised 1994 Aims and Scopes
URL: http://miralabwww.unige.ch/~ifip/

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WG 5.11 Computers and Environment

est. 1991, revised 1992 Aims and Scopes
URL: http://www.enviromatics.org

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WG 5.12 Architectures for Enterprise Integration

est. 1995 Aims and Scopes
URL: http://www.cit.gu.edu.au/~bernus/ifip/WG5.12/

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TC 6 - Communication Systems

est. 1971, revised 1987 and 1991 Aims and Scopes
URL: http://ifip.informatik.uni-hamburg.de/ifip/tc/6

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WG 6.1 (Architectures and Protocols for Distributed Systems)

est. 1973, revised 1982, 1999, 2000 Aims and Scopes
URL: http://www.run.montefiore.ulg.ac.be/IFIP/

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WG 6.2 (Network and Internetwork Architectures)

est. 1994, revised 2000, 2009 Aims and Scopes
URL: http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

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WG 6.3 (Performance of Communication Systems)

est. 1994 Aims and Scopes
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WG 6.4 (Internet Applications Engineering)

est. 1979, revised 1991, 1996, 2000 Aims and Scopes
URL: http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

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WG 6.6 (Management of Networks and Distributed Systems)

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

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WG 6.7 (Smart Networks)

est. 1996, revised 1998, 2001, 2007 Aims and Scopes
URL: http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

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WG 6.8 (Mobile and Wireless Communications)

est. 1996, revised 2002, 2007 Aims and Scopes
URL:http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

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WG 6.9 (Communication Systems for Developing Countries)

est. 2002 Aims and Scopes
URL:http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

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WG 6.10 (Photonic Networking)

est. 1998 Aims and Scopes
URL: http://www.ifip.tu-graz.ac.at/TC6/WG/index.htm

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WG 6.11 (Electronic Commerce - Communication Systems)

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

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TC 7 - System Modeling and Optimization

est. 1972 Aims and Scopes
URL: http://www.math.Virginia.EDU/ifip

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WG 7.1- Modeling and Simulation

est. 1972 Aims and Scopes

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WG 7.2 - Computational Techniques in Distributed Systems

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

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WG 7.3 - Computer System Modeling

est. 1973 Aims and Scopes

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WG 7.4 - Discrete Optimization

est. 1986 Aims and Scopes
URL: http://www.math.tu-bs.de/ifip/welcome.html

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WG 7.5 - Reliability and Optimization of Structural Systems

est. 1986 Aims and Scopes

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WG 7.6 - Optimization-Based Computer Aided Modeling and Design

est. 1989 Aims and Scopes

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WG 7.7 - Stochastic Optimization

est. 1989 Aims and Scopes
URL: http://www.unibw-muenchen.de/campus/LRT/LRT1/MARTI/IFIP/wg7_7.html

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TC 8 - INFORMATION SYSTEMS

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WG 8.1 - Design and Evaluation of Information Systems

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

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WG 8.2 - The Interaction of Information Systems and the Organization

est. 1977 Aims and Scopes
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WG 8.3 - Decision Support Systems

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WG 8.4 - E-Business Information Systems: Multi-disciplinary research and practice

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WG 8.5 - Information Systems in Public Administration

est. 1988 Aims and Scopes
URL: http://www.uni-koblenz-landau.de/koblenz/fb4/institute/iwvi/agvinf/community/ifip/

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WG 8.6 - Transfer and Diffusion of Information Technology

est. 1994 Aims and Scopes
URL: http://www.ifip8-6.cbs.dk/

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WG 8.8 - Smart Cards

est. 1998 Aims and Scopes
URL: http://cedric.cnam.fr/ifiptc8.8/

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WG 8.9 – Enterprise Information Systems

est. 2006 Aims and Scopes
URL: http://preweb.clt.odu.edu/ifip/

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TC 9 - ICT AND SOCIETY

est. 1976, revised 2008, 2009 Aims and Scopes
URL: http://is2.lse.ac.uk/tc9/

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WG 9.1 - Computers and Work

est. 1977 Aims and Scopes
URL: http://jpedia.org/ifipwg91/

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WG 9.2 - Social Accountability

est. 1977, revised 2009 Aims and Scopes
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SIG 9.2.2 - Framework on Ethics of Computing

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WG 9.3 - Home Oriented Informatics and Telematics

est. 1988, revised 1989 Aims and Scopes
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WG 9.4 - Social Implications of Computers in Developing Countries

est. 1989, revised 2007
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est. 1989, rev. 1999, 2000, 2006, 2008 Aims and Scopes
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WG 9.6/11.7 - Information Technology: Misuse and the Law

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

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WG 9.7 - History of Computing

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WG 9.8 – Gender Diversity and ICT

est. 2001, revised 2009 Aims and Scopes
URL: http://www.informatik.uni-bremen.de/~oechteri/IFIP

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WG 9.9 - ICT and Sustainable Development

est. 2005 Aims and Scopes
URL: http://www.ict-sd.org/

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TC 10 - Computer Systems Technology

est. 1976, revised 1987 Aims and Scopes
URL: http://www.upb.de/cs/ag-rammig/TC10-Webpages/membertc10.htm

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WG 10.1 (Computer-aided Systems Theory) est. 1994, dissolved 2007

WG 10.2 (Embedded Systems)

est. 2006 Aims and Scopes
URL: http://websrv2.c-lab.de/ifip-wg-102

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WG 10.3 (Concurrent Systems)

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

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WG 10.4 (Dependable Computing and Fault Tolerance)

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

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est. 1999
URL: http://www.ece.cmu.edu/~koopman/ifip_wg_10_4_sigdeb/.

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est.2009 Aims and Scopes

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est. 2009 Aims and Scopes

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WG 10.5 (Design and Engineering of Electronic Systems)

est. 1981, revised 1988, merged with WG 10.2 in 1994, rev. 2003 Aims and Scopes
URL: http://www.inf.ufrgs.br/ifip10-5/

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

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

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TC 11 - Security and Privacy Protection in Information Processing Systems

est. 1984, revised 2006, 2009 Aims and Scopes
URL: http://www.ifiptc11.org

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WG 11.1 (Information Security Management)

est. 1985, revised 1992 Aims and Scopes
URL: http://www.cisnr.org/ifip

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WG 11.2 (Pervasive Systems Security)

est. 1985, revised 1992, 1995, 2009 Aims and Scopes
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WG 11.3 (Data and Application Security)

est. 1987, revised 2001 Aims and Scopes
URL: http://seclab.dti.unimi.it/~ifip113/

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WG 11.4 (Network & Distributed Systems Security)

est. 1985, revised 1992 Aims and Scopes
URL: http://www.ifip.tu-graz.ac.at/TC11/WG/index.htm

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WG 11.6 (Identity Management)

est. 2006 Aims and Scopes

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

WG 11.8 (Information Security Education)

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

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WG 11.10 (Critical Infrastructure Protection)

est. 2006 Aims and Scopes
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WG 11.11 (Trust Management)

est. 2006 Aims and Scopes

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TC 12 - Artificial Intelligence

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

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WG 12.3 (Intelligent Agents)

est. 2003 Aims and Scopes

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WG 12.5 (Artificial Intelligence Applications)

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WG 12.6 (Knowledge Management)

est. 1998, revised 2003, 2008 Aims and Scopes
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TC 13 - Human-Computer Interaction

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SIG 13.1 (Interaction Design and International Development)

est. 2008 Aims and Scopes

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WG 13.2 (Methodology for User-centered System Design)

est. 1992 Aims and Scopes
URL: http://wwwswt.informatik.uni-rostock.de/IFIP_13_2/

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SIG 13.2 (Interaction Design and Children)

est. 2009
URL: http://www.idc-sig.org/

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WG 13.3 (Human-Computer Interaction and Disability)

est. 1992, revised 1994, 2001 Aims and Scopes
URL: http://www.info.fundp.ac.be/IFIP13-3/

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WG 13.4 (joint with WG 2.7)

WG 13.5 (Human Error, Safety and System Development)

est. 1998 Aims and Scopes
URL: http://www.dcs.gla.ac.uk/johnson/IFIP_WG13.5

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WG 13.6 (Human Work Interaction Design)

est. 2005 Aims and Scopes
URL: http://ilex.cbs.dk/hwid/

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WG 13.7 (Human - Computer Interaction & Visualization HCIV)

est. 2008 Aims and Scopes
URL: http://www.hciv.de

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TC 14 - Entertainment Computing

est. 2002 as SG16 / approved in 8/06 as TC14 Aims and Scopes
URL: http://www.org.id.tue.nl/IFIP-TC14/

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WG 14.1 - Digital Storytelling

est. 2004, revised 2006 Aims and Scopes

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WG 14.2 - Entertainment Robot

est. 2004, revised 2006 Aims and Scopes

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WG 14.3 - Theoretical Basis of Entertainment

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

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WG 14.4 - Games and Entertainment Computing

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

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WG 14.5 - Social and Ethical Issues in Entertainment Computing

est. 2005, revised 2006 Aims and Scopes

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WG 14.6 – Interactive TeleVision (ITV)

est. 2007 Aims and Scopes
URL: http://uitv.info/ifip

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WG 14.7 – Art and Entertainment

est. 2007 Aims and Scopes
URL: http://www.tosa.media.kyoto-u.ac.jp/ifip/

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Technical Committee and Working Group - Aims and Scopes

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

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

TC 1 - Foundations of Computer Science - Aims and Scopes

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

AIMS

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

SCOPE

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

- frontiers, laws, and limits of information processing;
- fundamental formal systems;
- efficiency and complexity of information processing;
- formal systems to specify, design, verify, analyse, and manipulate
- complex information processing systems;
- theoretical foundations of various other parts of computer science and its main application areas;
- scientific paradigms of informatics and their relations to other disciplines;

- information processing fundamental concepts, models and theories to support the development of other sciences. With the goal to develop foundations and to make use of them.

WG1.1 - Continous Algorithms and Complexity
est. 1992

AIMS

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

SCOPE

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

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

WG1.2 - Descriptional Complexity
est. 1992

AIMS

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

SCOPE

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

- generalized descriptional complexity measures and their properties, including resource-bounded com-plexity, structural complexity, hierarchical complexity, trade-offs in succinctness, and the complexity of sets, languages, grammars, automata, etc.;
- algorithmic and other descriptional theories of randomness;
- the use of descriptional randomness and associated descriptional complexity measures in computational complexity, economy of description, cryptography, information theory, probability, and statistics;
- descriptional complexity measures for inductive inference and prediction, and the use of these measures in machine learning, computational learning theory, computer vision, pattern recognition, statistical inference, and neural networks.

WG1.3 - Foundations of Systems Specifications
est. 1992

AIMS

- To support and promote the systematic development of the mathematical theory and the foundations of systems specifications;

- To investigate the theory of formal models for systems specifications, development, transformation and verification;

SCOPE

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

WG 1.4 - Computational Learning Theory
est.1995

AIMS

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

SCOPE

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

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

AIMS

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

SCOPE

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

WG 1.6 - Term Rewriting
est. 1998, revised 1999

AIMS

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

SCOPE

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

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

AIMS

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

SCOPE

The main research topics relevant for the Working Group include:

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

- formal analysis and design for prevention of denial of service.

WG 1.8 - Concurrency Theory
est. 2005

AIMS

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

SCOPE

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

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

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

est. 1962, revised 1982, 1990

AIMS

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

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

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

AIMS

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

SCOPE

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

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

AIMS

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

SCOPE

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

- apply to the actual computing milieu;
- have sufficient generality to describe total systems or useful subsystems;
- treat either:
  - problem specification or
  - solution specification;

- provide practical guides towards derivation of:
  - capabilities,
  - correctness,
  - equivalence,
  - implementability,
  - performance;
- assist in standards development and specification;
- have a pedagogical utility.

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

AIMS

To increase programmers' ability to compose programs.

SCOPE

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

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

AIMS

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

SCOPE

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

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

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

AIMS

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

SCOPE

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

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

AIMS

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

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

SCOPE

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

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

These currently include in particular:

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

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

AIMS

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

SCOPE

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

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

AIMS

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

SCOPE

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

- multiple processor implementations;
- programming styles and techniques appropriate for functional languages;
- applications and experience.

WG2.9 - Software Requirements Engineering)
est. 1993

AIMS

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

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

SCOPE

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

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

WG2.10 - Software Architecture
est. 2000

AIMS

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

Software architecture is concerned with

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

Software architecture is important because

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

Some of the concerns of a software architect are

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

SCOPE

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

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

WG2.11 – Program Generation
est. 2003

AIMS

Generative approaches have the potential to revolutionize software development as automation and components revolutionized manufacturing.
At the same time, the abundancy of current research in this area indicates that there is a host of technical problems both at the foundational and
engineering levels. As such, the aim of this Working Group of researchers and practitioners is to promote progress in this area.

SCOPE

The scope of this WG includes the design, analysis, generation, and quality control of generative programs and the programs that they generate.
Specific research themes include (but are not limited to the following areas):

- Foundations: language design, semantics, type systems, formal methods, multi-stage and multi-level languages, validation and verification.
- Design: models of generative programming, domain engineering, domain analysis and design, system family and product line engineering,
- model-driven development, separation of concerns, aspect-oriented modeling, feature-oriented modeling.
- Engineering: practices in the context of program generation, such as requirements elicitation and management, software process engineering
- and management, software maintenance, software estimation and measurement

- Techniques: meta-programming, staging, templates, in-lining, macro expansion, reflection, partial evaluation, intentional programming,
- staged configuration, stepwise refinement, software reuse, adaptive compilation, runtime code generation, compilation, integration of
- domain specific languages, testing.

- Tools: open compilers, extensible programming environments, active libraries, frame processors, program transformation systems,
- program specializers, aspect weavers, and tools for domain modeling.

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

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

AIMS

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

SCOPE

The scope of the working-group includes:

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

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WG2.13 – Open Source Software

est. 2006

AIMS

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

SCOPE

Software engineering perspective

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

Studies of OSS deployment

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

Social science perspective

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

External perspectives & influences

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

TC 3 - Education - Aims and Scopes

est. 1963, revised 1992, 1995, 1998

AIMS

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

WG3.1 - Informatics and ICT in Secondary Education
est. 1966, revised 1998, 2008

The Working Group is concerned with the role of both informatics and information literacy on the one hand and the use of Information and Communication Technologies (ICT) in education on the other hand in secondary education (age range from 11 to 18 years).

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

AIMS

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

SCOPE

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

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

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

The Working Group is concerned with the roles of both informatics and resulting Information and Communication Technologies (ICT) in higher education.

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

AIMS

- The Working Group aims to develop effective communication among its members who come from many countries. This communication network , which is based on meetings in person at working conferences and workshops, allows members to actively access state of the art results of research and practice, and to develop a collective expertise.

- On the basis of this collective expertise, prospective ideas about development and impact of informatics and related technologies in higher education are formed.
- The collective expertise is shared with others in open conferences, seminars, and consultancy and through publications.
- The Working Group strives to achieve a proper understanding of the impact of the information technologies on society in order to be able to define the consequent new professional responsibilities of all students.
- The curricular work of the working group aims:
- to revise curricula for informatics dealing with changes both from technological development and from theoretical advances;
- to provide guidance on the informatics component needed in the curricula of all disciplines;
- to provide model curricula, adaptable to various cultural needs and educational systems, especially those of developing countries.

SCOPE

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

Among the aspects covered are:

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

WG3.3 - Research on Education Applications of Information Technologies
re-est. 1988, revised 2004

AIMS

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

SCOPE

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

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

AIMS

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

SCOPE

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

WG3.4 is focused on the area of professional and vocational education rather than on specific computing curricula in primary, secondary or tertiary educational institutions. The membership of WG3.4 comprises academics and ICT practitioners whose interests are reflected in the conference activities organized by the Working Group over recent years. These include the use of computer-mediated education, the on-going professional education of both ICT and non-ICT professionals, the activities of national ICT professional bodies, the delivery of effective ICT vocational education to post-secondary learners and the integration of ICT into other tertiary curricula.

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

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

AIMS

- develop pedagogical perspectives and respond to challenges raised by digital technologies in education and for creative activities and learning as cognitive tools;
- study and evaluate the issues arising when ICT is used in pre-school and elementary education; pre-service teacher education; and professional development for teachers and teacher educators;
- assist teachers (as practitioners), administrators and other educators to assess the impact of ICT on children, teachers, and the school community;
- develop understanding of learning environments appropriate to ICT use and where ICT is used;
- promote critical use of educational technologies in pre-school and elementary school settings including schools in the developing nations;
- promote the development of ICT materials and equipment, of recognized quality including the developing nations;

- promote the use of ICT to support the school integration of disabled and hospitalized pupils;
- focus on consequences and implications for teacher education and pedagogical needs of the future in ICT;
- ensure that ethical perspectives raised by the applications of ICT on education and children's lives are handled in a critical and appropriate way;
- enable ICT to make a beneficial contribution to children's learning and living;
- bring the problems of ICT education in pre-school and elementary education to the attention of school administrators and appropriate authorities to whom they report; and
- recognize the importance of Informatics in education and implementation of Informatics in curriculum of elementary education.

SCOPE

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

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

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

AIMS

The aims of the working group are:

1) to investigate the use of Information and Communication Technologies (ICT) for learning in open, flexible and distance education.

2) To facilitate discussion and dissemination of research and development in the field of learning through processes enabled by information and communication technologies (termed telelearning, E-learning, tele-education and online learning).

SCOPE

The focus of the work will be on:

- Pedagogical issues
- Administrative issues

- Technological capabilities

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

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

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

AIMS

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

SCOPE

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

WG3.8 - Lifelong Learning
est. 2008

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

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

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

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

AIMS

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

SCOPE

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

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

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

Lifelong Learning as a *social issue*:

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

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

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

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

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

SIG3.9 – Digital Literacy
est. 2007

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

AIMS

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

SCOPE

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

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

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

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

TC5 - Information Technology Applications - Aims and Scopes

est. 1970, rev. 2004

AIMS

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

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

SCOPES

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

- Product Lifecycle Management
- Digital Engineering / Digital Modeling and Simulation / Digital Manufacturing
- Computer Aided Product Realization
- Integrated Manufacturing / Production Management including Data Management for Production, Process Planning and Tools
- Virtual Product Creation, Visualization and Digital Verification of Product and Process
- Environmental Information and Decision Support Systems for Environmental Monitoring, Management, Research and Policy, including Risk and Crisis Management

- Virtual collaboration supporting the interaction between product, production, supply chain management, recycling and end of life disposal

  Enterprise integration to facilitate product realization.

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

AIMS

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

SCOPE

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

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

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

AIMS

1. To contribute to identify the underlying scientific foundation of Computer Aided Innovation and also to evaluate their effectiveness and efficiency.
2. To identify the state of the art and trends of Computer Aided Innovation Software and its tools and methods by discussing organizational, technological and cognitive aspects of the application of CAI methods and tools.
3. To promote the development of Computer Aided Innovation Software focusing on end-to-end product creation process with methods and tools to ensure the feasibility and success of innovations.

4. To address the main motivations of the industrial sector, regarding the engineering innovation activity with computer tools and methods.

5. To address the main motivations of the academic community regarding theoretical foundations of computer aided innovation.

SCOPE

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

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

AIMS

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

SCOPE

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

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

AIMS

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

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

SCOPE

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

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WG5.8 Enterprise Interoperability
est. 2006, revised 2008

AIMS

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

Specifically, the goals of the WG are:

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

SCOPE

Activities

Activity1: to define and characterize "Enterprise Interoperability"

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

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

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

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

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

Activity 4: Provide a roadmap for Enterprise Interoperability

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

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

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

Activity 6: Education

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

Activity 7: Dissemination of the results of the WG

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

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

AIMS

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

SCOPE

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

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

AIMS

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

SCOPE

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

- Cultural and artistic patrimony protection.

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

AIMS

- To *foster research into enterprise architecture*, and in particular enterprise architecture frameworks, enterprise engineering methodologies, enterprise modeling and generic enterprise models / ontologies;
- To identify theoretically sound and practically viable techniques for the process of change toward the integrated enterprise.
- The *multi-disciplinary* perspective of this working group requires the synthesis of relevant results from other disciplines, such as Manufacturing Engineering and Management, Industrial Engineering, Management Science, Information Systems and Systems Engineering as well as can build on results from the Software Engineering discipline.
- Active *involvement and liaison with relevant standardisation bodies*, such as
    - ISO TC184 Industrial Automation Systems and Integration SC5 WG1 on Modeling and Architecture
    - ISO/IEC JTC1/SC7 Software and Systems Engineering WG42 on Architecture

SCOPE

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

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

Enterprise engineering methodologies and meta-methodologies;

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

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

- Scholarly evaluation of enterprise architecture frameworks that capture the life-cycle of the enterprise and its constituent entities. This aspect of the WG activity is addressed through the active liaison and co-sponsorship activities with other relevant Working Group and Technical Committees of IFIP, and other organisations conducting research and development in this area, such as IFAC, and the *continued organisation of the ICEIMT conference series*.

Evaluation of the physical and functional architectures of information systems, industrial production – or service systems, as well as EA program architectures (such as Information-, Process-, Applications- and Technical Architecture, as well as models of the Organisation) for complete enterprise live-cycle development and management. This aspect of the WG activity is mainly addressed through liaison and participation in relevant standard bodies.

TC 6 - Communication Systems - Aims and Scopes

est. 1971, revised 1987 and 1991

AIMS

- to promote the international exchange of information related to communication systems;

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

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.

WG6.1 - Architecture and Protocols for Distributed Systems
est. 1973, revised 1982, 1999, 2000

AIMS

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

- To disseminate information and publications, foster an active participation of industry and encourage the transfer of knowledge between academia and industry.
- To encourage young researchers to enter this field.

SCOPE

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

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

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

AIMS

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

SCOPE

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

- Network architectures: including architectures for the Future Internet, architectures of local area networks, wide area networks, access networks, mobile IP networks, internetworking.
- Network protocols: including transport and network layer protocols, and protocols for Internet evolution.
- Network control and quality-of-service: including traffic engineering and control, signalling, network quality of service.
- Network components design: including switch and router design, techniques for the transport of packetized voice and video.
- Parallel processing of network protocols: including multi-core architectures for network elements.
- Overlay services and systems: including peer-to-peer communication services and virtualisation.
- Network resilience: robust and survivable networks.
- Network measurements: traffic monitoring and analysis.
- Energy-efficient network protocols and architectures.
- Network protocols and transport protocols for delay-tolerant networks and space internetworks.

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

AIMS

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

SCOPE

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

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

AIMS

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

SCOPE

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

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

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

AIMS

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

SCOPE

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

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

AIMS

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

SCOPE

Smart Networks is concentrated on research on tools and services able to be placed on top of network algorithms in order to adapt them. The concept of smart networks was developed as a step to give the network a way to adapt itself to changes within the environment and following network conditions. New emerging research and technologies include autonomic networking, Intelligent Agents, knowledge plane, situated view, Configurable Architectures for Software and Hardware, Dependable Reconfigurable Networks, Mobility Management, QoS Management, Security Management, Flow Control, Mobility and Network Integration Issues.

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

AIMS

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

SCOPE

The scope of the Working Group includes:

- Wireless LANs.
- Wireless Sensor Networks.
- Wireless Actor Networks.
- Mobile computing.
- Cellular networks.
- Ad-hoc networks.
- Mobile and wireless personal communications.

- Short range communications and applications.
- Digital microwave systems and networks.
- Digital radio and TV broadcasting.
- Satellite networks.

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

WG6.9 - Communication Systems for Developing Countries
est. 2002

AIMS

To identify and study technical problems related to the access to, understanding of and application of network and telecommunications technology in developing countries or regions.
To encourage cross-fertilisation of concepts and techniques among developing countries, and between developing countries and developed countries.
To promote activities oriented to the diffusion of the methods and techniques for accessing computer networks in developing countries or regions.

SCOPE

The areas of study include models and methods for transfer of concepts and methods in communication systems and establishment of new applications in developing regions for existing technologies.
The requirements of the users of those regions include cost-effective technologies for global access, rural access to services and social development in those regions through appropriate applications of communication systems.
The problems of human resources, sharing of experience and cost of technology are particularly acute, and are to be examined in detail.
Although not limited to, the following items are of particular significance in the scope of the Working Group:

- Satellite systems
- Applications for cellular technology
- Alternative network technologies
- Technologies for distance learning, e-business, tele-meeting and any other reducing the distance effect between partners
- Global access and interconnectivity technologies
- Internet services.

WG6.10 - Photonic Networking
est. 1998, revised 1999, 2001

MOTIVATION

Photonic Communication networks hold the promise of solving several problems in the current generation of networks, among them restricted transmission capacity and limited performance capability.

AIMS

To strengthen research on photonic networks, to explore the potentials of photonic networks and to accelerate their early development. Additionally, the Working Group provides a platform for presenting and discussing research activities, major achievments and trends involving the all-optical communication networks.

SCOPE

The Working Group scope includes:

- Architectures, system design, control mechanisms and applications that exploit the abundant transmission capacity and flexibility of photonics.
- Development of analytical and simulation tools as well as methods for analysing, operating, dimensioning, and planning photonic networks.

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

AIMS

To organise and promote the exchange of information on communication protocols and information exchange mechanisms for Electronic Commerce. To foster research, development, standardisation, and applications for communication platforms and services for pre-sales support, sales and service management, settlement, and virtual enterprises in and open trading environment.

SCOPE

The scope of the work encompasses all aspects of communication and information exchange in Electronic Commerce, including:

- Navigation, brokerage, advertising, and catalogue exchange in pre-sales activities.
- Negotiation and contract making protocols in interactions between consumers, businesses, and public administration.
- Secure exchange of documents, content and value in open trading protocols.
- Communication platforms for the e-Economy, including e-commerce, e-business and e-government.
- Application of mobile agent technology.
- Advanced devices and protocols for the support of mobility and the ubiquitous access to electronic markets

TC 7 - System Modeling and Optimization - Aims and Scopes

est. 1972

AIMS

- to provide an international clearing house for computational (as well as related theoretical) aspects of optimization problems in diverse areas and to share computing experience gained on specific applications;
- to promote the development of necessary high-level theory to meet the needs of complex optimization problems and establish appropriate cooperation with the International Mathematics Union and similar organisations;

- to foster interdisciplinary activity on optimization problems spanning the various areas such as Economics (including Business Administration and Management), Biomedicine, Meteorology, etc., in cooperation with associated international bodies.

SCOPE

Computational aspects of optimization problems arising in such areas as Aerospace, Biomedicine, Economics, Meteorology, and Public Services (Health, Environment, Police, Fire, Transportation, etc.).

Some specific examples are:

- on-line and off-line computational techniques in modelling and control of dynamic systems;
- trajectory analysis and computation;
- optimization of decentralized systems (macro-economic systems) and systems with multicriteria;
- optimization of resource allocation in urban systems;
- optimization of pollution-control systems;
- optimization of man-machine systems;
- optimization of power systems operation.

WG7.1 - Modeling and Simulation
est. 1972

AIMS

To foster cooperation and information interchange among those engaged in the simulation of large and complex systems including specialists in:

- Modelling and Identification Methodology;
- Simulation Methodology;
- Computer Simulation Languages;
- Interactive On-Line Computation;
- Hybrid Computation.

SCOPE

The work will include three major classes of problems:

- Environmental Systems
- Biological Systems
- Societal Systems

using various approaches such as:

- new simulation languages for digital simulation;
- new computer graphics techniques;
- application of pattern recognition and feature extraction methods;
- new mathematical techniques (e.g. finite elements);

- new data base organisations and simulations of data bases.

WG7.2 - Computational Techniques in Distributed Systems
est. 1973

AIMS

To foster the international exchange of ideas and experience in the area of Computational Techniques with particular emphasis on distributed systems arising in diverse disciplines such as Mechanics, Economics, Biomedical Engineering, Geophysics, etc.

SCOPE

Computational Techniques for Identification and Optimal Control of Systems Modelled by Partial Differential Equations;

Computational Techniques for Structural Problems, Elasticity, Plasticity, etc., including various approaches such as: Finite Element Approximation Techniques, Decomposition Techniques, Interactive and Graphic Computer Techniques.

WG7.3 - Computer Systems Modeling
est. 1973

AIMS

The work of the Group is directed toward improving the art of analyzing and optimizing performance and costs of data processing systems through the use of analytical models.

SCOPE

- optimized allocation of resources (such as memory, telecommunication lines, computer power, and points of concentration and switching), in distributed information processing systems;
- analyses of throughput and response time;
- analyses of reliability in the presence of failures of hardware, software or telecommunications;
- analyses of CPU main memory and I/O channel scheduling and allocating procedures;
- analyses of storage systems including memory hierarchies and geographically distributed data bases;
- comparison with simulations and with performance indices measured experimentally.

WG7.4 - Discrete Optimization
est. 1986

AIMS and SCOPE

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

- to promote the definition of standards for combinatorial optimization software performance evaluation.

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

AIMS and SCOPE

- Promote modern structural system reliability and optimization theory;
- Advance international cooperation in the field of structural system reliability and optimization theory;
- Stimulate research, development and application of structural system reliability and optimization theory;
- Disseminate and exchange the information on reliability and optimization of structural systems;
- Encourage education in structural system reliability and optimization theory.

WG7.6 - Optimization-Based Computer Aided Modeling and Design
est. 1989, revised 1999

AIMS

The Working Group 7.6 considers high-performance computer-aided systems to support modelling, decision analysis, optimization and multi-criteria decision making.

The Working Group is focused on

- Policy and Management (Application Focus)
- Optimization, Multi-Criteria Decision Analysis and Simulation (Methodological Focus)
- Design, Planning and Scheduling (Problem Type Focus)
- Modelling and Implementation of Intelligent Systems (Information Technology Focus)

SCOPES

Any methodological approach or combination of solution techniques, which solves real world problems successfully. Thus, the following problem types are examples of application areas in policy and management the WG will deal with:

- Network Design (Communication, Transportation, Traffic)
- Planning and Scheduling in Transportation Logistics
- Production Planning and Scheduling
- Environmental. Planning Problems

WG7.7 - Stochastic Optimization
est. 1989

AIMS

To foster international cooperation among experts in stochastic optimization, and to spread information about the achievements of the field into areas of possible applications.

SCOPE

Subject of this WG are all problems involving in an essential way stochastic components (variables or processes) and the task of optimizing functions. In particular this includes:

- Theoretical investigation of stochastic optimization models;
- Design, development and analysis of solution methods;
- Modelling practical problems by stochastic optimization problems, e.g. in agriculture, industrial production, finance, power systems, water reservoir management, and implementing stochastic optimization models into decision support systems.

TC 8 - Information Systems - Aims and Scopes

est. 1966, revised 1990

AIMS

To promote and encourage interactions among professionals from practice and research and advancement of investigation of concepts, methods, techniques, tools, and issues related to information systems in organisations.

SCOPE

The planning, analysis, design, construction, modification, implementation, utilization, evaluation, and management of information systems that use information technology to support and coordinate organisational activities including:

- effective utilization of information technologies in organisational context;
- interdependencies of information technologies and organisational structure, relationships and interaction;
- evaluation and management of information systems;
- analysis, design, construction, modification and implementation of computer-based information systems for organisations;
- management of knowledge, information, and data in organisations;
- information systems applications in organisations such as transaction processing, routine data processing, decision support, office support, computer-integrated manufacturing, expert support, executive support and support for strategic advantage plus the coordination and interaction of such applications;
- relevant research and practice from associated fields such as computer science, operations management, economics, organisation theory, cognitive science, knowledge engineering, and systems theory.

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

AIMS

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

SCOPE

- Identify concepts and develop theories relevant to the planning, analysis, design and evaluation of information systems;
- Develop languages, techniques, tools and methods for applying these concepts and theories to the:
  - planning
  - requirements analysis and determination, and specification
  - design
  - evolution of information systems, and their verification, validation and overall evaluation;
- Develop methodologies for the analysis, evaluation and selection of information systems development methods;
- Take cognizance of relevant work from associated fields - such as computer science, software engineering, knowledge engineering, cognitive science, management science, organisation theory and systems theory - and apply the findings to the development of information systems.

WG 8.2 - The Interaction of Information Systems and the Organization
est. 1977, rev. 2005

AIMS

- To develop integrative frameworks that facilitate recognition and transfer or relevant knowledge about the role and uses of IT. Such frameworks can be based on a wide range of disciplines. these frameworks should be open to all research traditions and lines of research which further the study of the uses of IT in organizational contexts., and can also include the critical questioning of their relevance for the scope and aims of WG 8.2.
- To build theories and generate evidence about the role and impact of IT in specific organizational contexts.
- To improve the ways and means by which organizations design, implement and maintain IT.
- To nurture a critical discourse about the role which IT plays in the lives of people as individuals and as members of complex social institutions such as government, community, business, professional societies and other forms of social associations.
- To engage in ethical discourse about the practices and dilemmas which arise in the development, use and consequences of IT, or in research about such technology.

SCOPE

Working Group 8.2 is concerned with the generation and dissemination of descriptive and normative knowledge about the development and use of information technologies in organizational contexts, both broadly defined. By information technology (IT), we mean technologies that can be used to store, transfer, process or represent information. By organizational context, we mean the institutional arrangements in which information is used or created. Descriptively, the WG seeks to generate and disseminate knowledge about and improve understand of the role and impact of information technology across a range of social levels (society, organization,
individual) and across a diversity of spheres (marketplace, workplace, home, community). Normatively, it seeks to improve the design and application of information technologies that are both useful and effective for individuals, groups, organizations and society at large.

WG 8.3 - Decision Support Systems
est. 1981

AIMS

The development of approaches for applying information systems technology to increase the effectiveness of decision-makers in situations where the computer system can support and enhance human judgements in the performance of tasks that have elements which cannot be specified in advance.

SCOPE

To improve ways of synthesizing and applying relevant work from resource disciplines to practical implementations of systems that enhance decision support capability;

The resource disciplines include

- information technology
- artificial intelligence
- cognitive psychology
- decision theory
- organisational theory
- operations research and modeling.

WG 8.4 - E-Business Information Systems: Multi-disciplinary research and practice
est. 1986, rev. 2001, 2002

AIMS

To promote collaboration across disciplines in E-Business research and practice.

SCOPE

This working group provides a reference point and a focus for multi-disciplinary research and practice in E-Business. The intention is to extend the community's focus on E-Business to recognize, acknowledge and facilitate research and practice as it crosses the boundaries of IS, organizational, consumer, community, industry and national domains.

Where researchers and practitioners focus on specific issues and technologies, eg smart-card developments, mobile technologies or organizational adoption of IT practices then that research is more properly located within existing working groups. Where that work is cross or multi-disciplinary it can be located here.

WG 8.5 Information Systems in Public Administration
est. 1988

AIMS

To improve the quality of information systems in public administration at international, national, regional and local levels. The Working Group's special emphasis is on the relationship between central and local use of information systems and the provision of citizen services, together with the accomplishment of social goals.

SCOPE

- analyse information processing policies in public administration;
- discuss specific applications of information systems in public administration;
- analyse the impacts of information systems on public administration;
- apply the results of other IFIP Working Groups, and specifically of TC 8 Working Groups, to public administration.

WG 8.6 - Transfer and Diffusion of Information Technology
est. 1994

AIMS

To foster understanding and improve research in practice, methods, and techniques in the transfer and diffusion of information technology within systems that are developed and in the develop-ment process.

SCOPE

- Diffusion, transfer, and implementation of both mature and immature information technologies and systems in organizations and among organizations, sectors, and countries.
- Transfer of technology to be incorporated in systems for customers and clients.
- Transfer of both system and development technologies to technologists, developers, managers, and sponsors of systems.
- Development of frameworks, models, and terminology for information technology transfer and diffusion.
- Identification of risk factors and barriers to success in technology transfer and strategies for addressing them.
- Conditions or scenarios under which specific transfer and diffusion techniques are applicable.
- Methods to evaluate the efficiency, effectiveness, and value of technology transfer programs and approaches, including time and effort estimators and metrics.
- Organization design and process issues related to technology transfer and diffusion.
- Case studies of technology transfer and diffusion to provide instances to guide research, development, and practice.
- Standards and intellectual property issues that inhibit or facilitate information technology transfer.

WG 8.8 - Smart Cards
est. 1998, rev. 2001

AIMS

Smart cards are to be understood as personal, portable, flexible, secure tokens that form an integral part of a larger information infrastructure. Therefore the aims of WG 8.8 are:

- to encourage interaction between the numerous actors in the smart card area.
- to create a common and coherent approach of a specific methodology.
- to address the background technologies of component architectures; for example dedicated chips, security devices, memory management.
- to specify and design smart card operating systems.
- to identify and develop relationship between different themes of information systems and smart cards, for example promote the theme of smart cards as a widely distributed data base.
- to identify interfaces between smart cards as an active components of distributed systems and networks.
- to promote a global security analysis of information systems using smart cards.
- to investigate the field of applications of smart cards and propose a scheme for a design methodology.
- to create new models for information systems which use smart cards.
- to participate to advanced standardization discussions and propositions.

SCOPE

The study of smart cards as an innovative component of widely distributed systems. The scope includes all the aspects of smart cards design and applications:

- Technology with hardware, software and security specific requirements.
- Application design with a special emphasis on development methodology of distributed systems.
- Service providing including analysis of transactions, protocols and more generally speaking, the process of a top down design of smart cards projects.
- The interaction of smart card related technology with society, economics, public services and organizations.

WG 8.9- Enterprise Information Systems
est. 2006

AIMS

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

SCOPE

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

TC 9 - ICT and Society - Aims and Scopes

est. 1976, revised 2008, 2009

AIMS

The TC9 aims:

- To develop understanding of how ICT innovation is associated with change in society;

- To influence the shaping of socially responsible and ethical policies and professional practices.

SCOPE

The TC9 fosters multidisciplinary discourse into:

- The role of ICT in the change of particular domains of human activity, including work; the home and private life; governance.
- Ethical, political, economic and cultural dimensions of ICT innovation.
- Issues stemming from ICT innovation, such as gender, the phenomenon of virtuality, sustainable development.

WG 9.1 - Computers and Work
est. 1977

AIMS

- to study and report on how computers have affected employment levels, job content and structure, working conditions, career patterns, and participation problems;
- to give an account of problems relating to computers and work, and of proposed measures for dealing with these problems;
- to encourage and support the design and development of systems which promote not only efficiency but provide job satisfaction, for example through interesting work and reduction of stress.

SCOPE

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

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

WG 9.2 - Social Accountability
est. 1977, revised 2009

AIMS

- To provide an international forum for assessing the social consequences of ubiquitous Information and Communication Technologies (ICT) and its applications
- To promote the safe and socially beneficial development and use of ICT
- To encourage a human-centred and inclusive approach in the design and implementation of ICT, together with responsible long-range planning
- To foster academic discussion on the use of ICT in its capacity to enhance the quality of life

SCOPE

Those aspects of ICT development and implementation that impact on society in general and which affect the public interest in particular, such as:

- Privacy and confidentiality

- Inclusion, access for all, and choice
- Equality in system relationships
- User and IT professional education and awareness
- Social consequences of future technologies
- Ethical, legal and regulatory issues

WG 9.3 - Home-Oriented Informatics and Telematics
est. 1988, revised 1989

AIMS

- Foster benevolent design, develop-ment, implementation, applications and use of Home-Oriented Informatics and Telematics (HOIT).
- Encourage surveys and studies on HOIT.
- Develop methodologies for studying social implications of HOIT.
- Establish a global platform for interaction, exchange, joint initiatives and co-operation between such groups as:
  - the end of users of HOIT: members of households
  - industrial developers and designers of HOIT technology and related services
  - implementation designers
  - policy, decision making, social and consultative bodies
  - architects and urban planners
  - scientists.

SCOPE

The social implications of informatics, communications and telematics in the home, the family and its environment (HOIT);

including:

- actual and potential human usefulness of HOIT;
- social impact of these technologies and their applications;
- developments of the underlying infrastructure;
- rationale in innovation and design processes;
- dynamics of technology development.

WG 9.3 explicitly cares about the position of and the potentials for vulnerable groups like children, less-educated, disabled, elderly and non-employed people, paid and non-paid workers at home, cultural minorities, unaware users and others.

WG 9.4 - Social Implications of Computers in Developing Countries
est. 1989, revised 2007

AIMS

- to collect, exchange and disseminate experiences of information and communications technology (ICT) implementation in developing countries;

- to develop a consciousness amongst professionals, policy makers and public on social implications of ICT in developing nations;
- to develop criteria, theory, methods, and guidelines for design and implementation of culturally adapted information systems;
- to create a greater interest in professionals from industrialized countries to focus on issues of special relevance to developing countries through joint activities with other Technical Committees.

SCOPE

- national ICT policy issues;
- culturally adapted computer technology and information systems;
- role of transnational corporations, regional and international cooperation and self-sufficiency in informatics;
- social awareness of ICT and ICT literacy.

WG 9.5 – Virtuality and Society
est. 1989, revised 1999, 2000, 2006, 2008

AIMS

The IFIP Working Group 9.5 (Virtuality & Society) sees information and communication technologies as being intertwined with society. In this sense, virtuality is taken as constituting both the social and the technical modes of existence. The aim therefore of this WG is to explore the globality of virtuality, the complex, emergent and changing nature of this field and to act as a location for transdisciplinary work on virtuality. Through workshops and conferences the WG will promote a dialogue and mutual exchange from a diverse set of disciplines such as computing, information systems, media studies, social theory and philosophy but also anthropology, organizational studies, gender studies, politics and ethics.

SCOPE

The scope of the working group is all aspects of virtuality as evident in a multiplicity of empirical sites and social phenomena. Given its scope, we welcome contributors from, but not limited to, the following areas:

- Ethics of virtuality
- Virtual media and art
- Computing games
- Telemedicine
- Internet studies
- Organizational Aspects of Virtuality
- Virtual politics and political web-sites
- Virtual reality

WG 9.6/11.7 - Information Technology Mis-Use and the Law
est. 1990, revised 1992, 2001

AIMS

- To foster co-operation between the "Computers and Society" and "Information Security" communities on issues of "IT misuse and the law".
- To develop an understanding in IFIP committees and national bodies of:
- threats associated with IT systems and the related legal concerns.
- risks to people and organisations arising from these threats.
- responsibilities of people and organisations arising from legal and other provisions for information security.
- risks arising from incoherency between legal, technical and managerial provisions.
- the impact of IT systems on the current law, e.g. (criminal and civil law) and potential problems.
- To propose and/or evaluate legal and other prescriptions to combat these threats and their associated risks.
- To engender information exchange on threats, their origins, and possible consequences.
- To propose and/or evaluate legal and other appropriate courses of action.

SCOPE

- Analysis of existing and emerging threats to IT systems security, and the associated risks to people, organisations and society.
- Analysis of security principles.
- Aspects of the law where the use or introduction of IT on a global scale has rendered the current law (and/or its interpretations) obsolete or obsolescent or made it unenforcable.
- Analysis of potential means of countering and mitigating threats, e.g. legal frameworks, ethical standards, managerial procedures, and other social factors applicable to behaviour and responsibilities in the context of IT systems.
- Possible solutions.
- New legal, social and organisational consequences of the development and use of IT systems.

WG 9.7 - History of Computing
est. 1992

AIMS

- To provide a central vehicle for information interchange regarding the methods and techniques of historio-graphy, especially as related to the opportunities for the studies of contemporary history.
- To provide expertise for the design, implementation and operation of archives and displays related to the history of information processing.
- To encourage the development of national archives.
- To develop a program of &132;Pioneers' Days" which recognize the contribution of pioneers and anniversaries of major events.
- To identify pioneers worthy of an appreciation and distinction and make "IFIP Pioneer Awards".
- To develop publication plans for histories of Information Processing.
- To promote the inclusion of historical modules in appropriate curricula.

SCOPE

The history of computing and informatics with a view to providing the impetus to preserve the records and artifacts of information processing inventions, practices and activities throughout the world under the auspices of IFIP and its constituent organizations. One special focus is the socio-historical context and consequences of Information Technologies.

WG 9.8 Gender Diversity and ICT
est. 2001, 2009

AIMS

This WG is dedicated to research and action how different areas of society being transformed by computer technology with particular emphasis on changes in women's work and life and how these have come about. It is based on the integration of gender studies and computer science. Membership is open to both women and men.

In this context the WG aims

- to serve as an international, interdisciplinary communication forum and to hold discussions in workshops and conferences,
- to exchange women's experiences as scholars and professionals in information technology,
- to integrate feminist perspectives into computer science,
- to develop an understanding in the IFIP communities and national bodies of the gendered aspects in design, realisation, and implementation of information systems,
- to propose and/or evaluate appropriate courses of action.

SCOPE

The topics cover the transitions from women's traditional work to work based on modern technology, from communication within personal communities to virtual communities, from traditional gendered life to new gendered perspectives. Computerisation is understood in the narrow sense of computing systems as well as in the broader sense which includes the organisational, ethical, and social context of design and usage.

Discourses are linked to

- the analysis of the effects of computer technology on women's status as citizens,
- the analysis of opportunities and risks of computerised technologies for women's work in the paid labour force and in domestic spheres,
- the analysis of gender perspectives in the formative and constructive processes of computers and information systems,
- the analysis of gender in computing education and educational strategies for girls and women.

WG 9.9 ICT and Sustainable Development
est. 2005

AIMS

- To contribute to the development of an information society that meets the human needs of the present without compromising the ability of future generations to meet their own needs.
- To be actively involved in the development of ICT applications which involve the goal of sustainable development.

- To investigate the interactionamong social, environmental and economic issues in the development of ICTs and their applications.
- To promote worldwide research and practice for further advancement of ICT towards a safe and sustainable self developing World
- To strengthen inderdisciplinary research efforts in technology assessment for ICTs with a focus on ICT-induced opportunities and risks for the individual, for social systems and for the global ecosystem.
- To provide a platform for presenting and discussing emerging ideas and trends in the intersection of the topics 'information society' and 'sustainable development'.
- To promote or support the organization of meetings as well as easy access to high-quality data, information and knowledge in this area and related areas.

SCOPE

- To create a network of experts working on ICT applications or implications related to sustainable development
- To support the coordination of policies related to information society issues with policies related to sustanable development
- To support applications of ICT for global environmental and development issues
- To facilitate research assessing the environmental and health impacts

  a) of ICT hardware life cycles; production, use, recycling and final disposal
  b) of ICT applications with respect to the resource efficiency of processes they influence
  c) of ICT-induced long-term changes of consumption patterns or lifestyles.
- To promote the communication between computer professionals and other experts on relationships between ICT and sustainable development
- To promote prospective studies to disseminate early warnings on consequences of applications of ICT that could compromise the goal of sustainable development, and encourage the development of strategies to ensure that ICT applications will contribute to sustainable development.

TC 10 - Computer Systems Technology - Aims and Scopes

est. 1976, revised 1987

AIMS

The Aims of the Committee are the promotion of the State-of-the-Art and the coordination of information exchange on concepts, methodologies, and tools in the stages in the life cycle of computer systems.

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.

WG10.2 – Embedded Systems
est. 2006

AIMS

The WG10.2 shall be constituted as a group under the sponsoring organization with the following basic aims:

- to be the internationally open reference group for all aspects of embedded system design promoted and sponsored by the sponsoring organization of the WG10.2:
- to further the dissemination and exchange of information and experience on research and applications in the area of embedded systems;
- to address ES designers and researchers from both, industry and academia;
- to encourage education in all areas of embedded systems;
- to further the interdisciplinary character of embedded systems, that encompasses hardware (system on a chip), real-time software, real-time operating systems, control theory, intelligent features, dependability issues.

SCOPE

Embedded systems are gaining increasing importance in all aspects of engineering. It is expected that in the near future roughly no technical artifact will exist without embedded information technology. There is a tendency to software oriented embedded and/or dependable systems, based on standardized micro-controller cores. This implies that the design of embedded real-time software and real-time operating systems will play a dominant role in this field. As more and more networks of micro-controllers are applied, real-time communication systems and in general the design of distributed embedded systems will gain importance. As high-performance embedded computing components have become available the challenges of designing embedded systems have become more acute.

The scope of WG10.2 comprises in detail to:

- organize events in the area of ES (e.g. DIPES (Distributed and Parallel Embedded Systems));
- seek co-operation with user and interest groups as well as with ES-oriented groups within IFIP and other societies;
- discuss, disseminate and exchange information on ES-related standardization activities;
- study and encourage curricula on ES design;
- initiate and organize new ES-related activities.

WG10.3 - Concurrent Systems
est. 1978, revised 1979, 1988, 2006

AIMS

The study of computer systems, having several computing elements, with the goal of improving the quality of attributes such as cost, performance, programmability, extendability and functionality.

The study includes the interrelation software/firmware/hardware in specification, design and implementation.

SCOPE

- Exploration of problem areas and solutions pertaining to the interrelation between the hardware functions and the software functions in systems such as supervisors, data management, language translators, I/O systems, and user interfaces.
- Evaluation of the implementation of trends in computer systems technology on the interrelation of software, firmware and hardware.
- Evaluation of the implication of this interrelation in the trends in computer systems technology.

WG10.4 - Dependable Computing and Fault Tolerance
est. 1980, revised 1988

AIMS

Increasingly, individuals and organizations are developing or procuring sophisticated computing systems on whose services they need to place great reliance. In differing circumstances, the focus will be on differing properties of such services - e.g. continuity, performance, real-time response, ability to avoid catastrophic failures, prevention of deliberate privacy intrusions. The notion of dependability, defined as that property of a computing system which allows reliance to be justifiably placed on the serve it delivers, enables these various concerns to be subsumed within a single conceptional framework. Dependability thus includes as special cares such attributes as reliability, availability, safety, security. The Working Group is aimed at identifying and integrating approaches, methods and techniques for specifying, designing, building, assessing, validating, operating and maintaining computer systems which should exhibit some or all of these attributes.

SCOPE

Specifically, the Working Group is concerned with progress in:

- understanding of faults (accidental faults, be they physical, design induced, originating from human interaction; intentional faults) and their effect;
- specification and design methods for dependability;
- methods for error detection and processing, and for fault treatment;
- validation (testing, verification, evaluation) and design for testability and verifiability;
- assessing dependability through modelling and measurement.

WG10.4 SIG on Education in Resilient Computing
est. 2009

AIMS

The primary aims of the SIG are:

- To acquire knowledge on how Resilient Computing is taught today in different worldwide higher educations institutions;
- To compare the experiences so to provide an incremental process towards the structuring of an educational track in Resilient computing;
- To promote the outcomes of the SIG to update or change or start proper tracks in Resilient Computing in higher educations institutions;
- To interact with\international bodies working on educational issues i.e. ACM, IFIP, etc., to present the outcomes of the SIG;
- To collect and make accessible, through the web, support material useful to cover the several disciplines relevant to Resilient Computing

- To build and maintain a comprehensive database of material, available to the community of students, scientists, industrial designers and regulatory bodies

SCOPE

The adjective resilient has been in use for decades in the field of dependable computing systems essentially as a synonym of fault-tolerant, thus generally ignoring the unexpected aspect of the phenomena the systems may have to face. These phenomena become of primary relevance when moving to systems like the future large, networked, evolving systems constituting complex information infrastructures – perhaps involving everything from super-computers and huge server "farms" to myriads of small mobile computers and tiny embedded devices, with humans being central part of the operation of such systems. Such systems are in fact the emergence of the ubiquitous systems that will support Ambient Intelligence.

From an educational point of view, very few Universities, if any, are offering a comprehensive and methodical curriculum that is able to provide students with a multi-disciplinary preparation that makes them able to cope with the challenges posed by the design of ubiquitous systems. Multi-disciplinarily spans over dependability, security, usability, human factors, legal issues and ethics. Thus, from the educational point of view there is the need to scale-up the spectrum of topics offered, to identify the best curricular structure to make successful both teaching and learning processes.

It is thus relevant to have an open worldwide forum in which the different educational approaches to teaching Resilient Computing are presented, compared and discussed to reach an agreed approach to this issue.

In addition it will be very valuable to collect together in a open and public database all available support material (as lecture's slides, textbooks, relevant literature, links to useful sites, etc.) that covers the different facets of multi-disciplinarily.

A first attempt to offer to our community a proposal for an MSc curriculum in Resilient Computing and gather extended support material has been done very recently in a European Network of Excellence ReSIST; the material is accessible at http://resist.isti.cnr.it/home.php.

WG10.4 SIG on Concepts and Ontologies
est. 2009

AIMS

- **1.** To take part in the development of the updated Computing Classification System (CCS) that is undertaken by the ACM to assure that our domain of interest is properly represented, since that was not the case in the two previous versions (1988 and 1998) of the CCS.
- **2.** To develop a thesaurus and an ontology that integrates the concepts of dependability, security, resilience, robustness, trustworthiness, survivability, high confidence, information assurance, self-healing (and possibly other related terms) and identifies their similarities and differences.
- **3.** To employ document clustering algorithms and other classification techniques in order to create a methodology for automatic identification of related documents from all the domains listed in Aim 2 above. To use the methodology in developing automatic tools that assist researchers and referees in creating and evaluating new research results.
- **4.** To use advanced natural language processing (NLP) tools and to collaborate with artificial intelligence experts of the computational linguistics and knowledge representation domains in the pursuit of the above Aims 2 and 3.
- **5.** To use our experience in order to promote the formation of an IFIP activity aimed to create a thesaurus, an ontology and a classification system for the entire field of informatics (computer science and engineering), possibly in collaboration with the ACM.

SCOPE

Dependability has naturally concerned most disciplines of computer science and engineering (informatics) since the early days. As a consequence, significantly different terminologies were developed by different communities to describe the same aspects of dependability.

The terminologies became entrenched through usage at annual conferences, in books, journals, research reports, standards, industrial handbooks and manuals, patents, etc.

As an illustration, we have the concepts of dependability, security, trustworthiness, survivability, high confidence, resilience, information assurance, robustness, self-healing, etc., whose definitions appear to be identical or to overlap extensively. In many cases the definitions themselves have multiple versions that depend on a given author's preference.

An example of a long-term effort to create a framework of dependability and security concepts is the effort within IEEE CS TC/DCFT and IFIP WG 10.4 that since a special session at FTCS-12 in 1982 has resulted in a series of papers, a six-language book, and in 2004 a "Taxonomy" paper in vol.1, no.1 of the *IEEE Transactions on Dependable and Secure Computing*. No other community has produced such a taxonomy.

The description of a domain by several synonyms or near-synonyms that lack well-defined distinctions is a source of continuing confusion that leads to re-inventions and plagiarism, impairs the transfer of research results to practical use in industry and impairs the recognition of related documents.

The orderly progress of dependability research and its practical applications requires that past work as well as new results should be classified on the basis of a single ontology and thus made accessible to the entire profession. However, it is unreasonable to expect that a committee formed by the different communities could by volunteer effort create a taxonomy document from which a single consensus ontology could be generated.

It must be concluded that today the purely "intellectual" (i.e., human) process of ontology building for dependability concepts is reaching its limits. The complementary solution is to augment the human effort by the use of automatic natural language processing tools that have been developed by computer linguists. The next step must be computer-aided building of a consensus ontology.

During the past decade much progress has been made in the development of computer tools for human language processing. Such tools have been developed for the extraction of term candidates from a corpus (set of texts). A thesaurus (list of important terms with related terms for each entry) is constructed from the term candidates. The ontology for a given domain is a data model that represents those terms and their relationships. Automatic indexation of the texts is carried out using the thesaurus, followed by clustering analysis using statistical and linguistic techniques. A measure of similarity between texts is computed that serves as a basis for automatic classification. The applicability of the above listed techniques to texts in the dependability domain has been part of research supported by the European Network of Excellence ReSIST (Resilience for Survivability in Information Society Technologies) in 2006-2009.

The corpus is composed of the texts of nearly 2000 papers presented at all 29 FTCS and 7 DSN conferences (1971-2006).The encouraging results of the processing of texts from the FTCS/DSN community leads to the conjecture that similar processing of texts from other conferences, journals, books, industrial documents, etc., will produce other ontologies that can be merged into a consensus ontology that covers the entire domain of dependability and its near-synonyms.

A dependability ontology is an integral part of an (still non-existent) ontology for all of computer science and engineering. The only existing and widely used taxonomy that could be used to build it is the ACM Computing Classification System (CCS). The CCS was created in 1988 and was last revised in 1998. It has fallen far behind the evolution of CS&E and information technology. The concepts of dependability are treated very inadequately, and many significant dependability terms are altogether missing in the 1998 ACM CCS taxonomy.

The coming update of the CCS is a challenge to the dependability community: we must take part in the process of creating an up-to-date and evolvable version of the CCS that adequately incorporates dependability concepts. The new CCS would allow the computer-aided construction of a thesaurus and an ontology for the entire CS&E profession. However, a consensus dependability ontology with explicit synonymy relations must be available to the CCS builders.

Finally, it is very appropriate for IFIP to take part in the building of a CCS. The experience of the SIG can serve as a starting point for such an effort within IFIP.

WG10.5 - Design and Engineering of Electronic Systems

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

AIMS

Electronic system design demands a tight integration on a very large profile of knowledge and skills ranging from hardware and software system architecture to semiconductor physics.
Functionality of complex embedded or stand-alone systems, to be applied in areas such as general-purpose computing, telecommunications, automotive, entertainment, and multimedia, may be realized by various combinations of analog and digital hardware and software parts.
Systems can be implemented by single or multiple integrated circuits and software modules that can be either of special purpose, programmable or reconfigurable.
The working group aims at providing a forum amongst creative experts to explore problem areas and solutions for the design of such complex electronic systems and also disseminating the solutions to a broader industrial and educational sphere.

SCOPE

The Working Group is interested in a broad range of topics related to the design and engineering of heterogeneous systems, containing hardware, software, and even mechanical parts.

- System Design Methods
- Embedded Systems
- Modeling and Specification
- Design Validation
- Formal Methods in Design
- Synthesis
- Design Environments
- Reconfigurable Computing
- VLSI Systems and Applications
- Physical Design
- Test and Testability
- Power-aware Design
- Analog and Mixed-Signal Systems
- Fundamental CAD Algorithms

TC 11 - Security and Privacy Protection in Information Processing Systems - Aims and Scopes

est. 1984, revised 2006, 2009

AIMS

To increase the trustworthiness and general confidence in information processing and to act as a forum for security and privacy protection experts and others professionally active in the field.

SCOPE

Work towards:

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

WG11.1 - Information Security Management
est. 1985, revised 1992

AIMS

As management, at any level, may be increasingly held answerable for the reliable and secure operation of the information systems and services in their respective organizations in the same manner as they are for financial aspects of the enterprise, the Working Group will promote all aspects related to the Management of Information Security.

These aspects cover a wide range, from purely managerial aspects concerning Information Security, (like upper management awareness and responsibility for establishing and maintaining the necessary policy documents), to more technical aspects (like risk analysis, disaster recovery and other technical tools) to support the Information Security management process.

SCOPE

- to study and promote methods to make senior business management aware of the value of information as a corporate asset, and to get their commitment to implementing and maintaining the necessary objectives and policies to protect these assets
- to study and promote methods and ways to measure and assess the security level in a company and to convey these measures and assessments to management in an understandable way;
- to research and develop new ways to identify the Information Security threats and vulnerabilities which every organization must face;
- to research and identify the effect of new and changed facilities and functions in new hardware and software on the management of Information Security;
- to study and develop means and ways to help information security managers to assess their effectiveness and degree of control;
- to address the problem of standards for Information Security.

STATEMENT OF CASE

There is a growing trend for senior business management to be held answerable for the reliable and secure operation of their information systems, as they are for control of their financial aspects. Information Security is, and should always be upper management responsibility.
Information security professionals, and WG 11.1 in particular, should therefore be responsible for the development of all types of tools, mechanisms and methods to support top management in this new responsibility.

WG11.2 – Pervasive Systems Security
est. 1985, revised 1992, 1995, 2009

AIMS

To investigate methods and issues in the area of information security related to pervasive systems; and to advance knowledge and awareness of the subject through publications, conferences and other means. The aim is to address pervasive systems security from both a functional, technical, and societal perspective.

SCOPE

The scope of the working group shall be to:

- Promote the design of the new information security techniques and methods in pervasive systems.
- Investigate and report on the information security aspects of information technology products and information services for pervasive systems.

- Design guidelines and promote methodologies for the implementation of information security in pervasive systems.
- Investigate intelligent token and smart card applications in information security with the aim of making the user less dependent on single fixed environment.
- To foster public debate on the security and privacy issues that emerge when pervasive systems are deployed on a large scale.

STATEMENT OF CASE

Pervasive systems shall be defined to be large scale systems that are comprised of nodes ranging from RFID tags, through embedded systems, to personal mobile devices, interconnected by a mixture of short range wireless and wide are wired networks. The typical characteristics of a pervasive system are: resource constrained nodes, often physically unreachable or without user interface, whose interconnections often span a large number of administrative domains with conflicting interests. Security of such systems is therefore an emergent property.

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

AIMS

To promote wider understanding of the risks to society of operating data management systems that lack adequate measures for security or privacy.

To encourage the application of existing technology for enhancing the security of database systems.

SCOPE

To advance technologies that support:

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

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

AIMS

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

SCOPE

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

- cryptographic techniques and their applications (confidentiality, digital signatures, integrity checking, ...);
- cryptographic protocols, including protocols for authentication, key distribution, electronic voting, electronic commerce, digital cash, ...

- practical implementations of cryptographic protocols in network security systems (Kerberos, SSL, KryptoKnight, ...);
- secure mobile code (language based security, Java Security, proof-carrying code, code signing, meta-level protocols for security, aspect languages for security, ...);
- security from a software engineering point of view; adding security to applications in an orthogonal way using meta-level protocols, aspect languages, secure software engineering ...;
- firewalls;
- software for intrusion detection and audit tools.

STATEMENT OF CASE

Management in any organization is responsible for the reliable and secure operation of the information systems that support the organization. As inter and intra-organization networking between information systems become the rule as well as the daily operational environment, the scope of concern takes on new aspects and new technical details come into play.
Management must not only address the security issues of wholly internal systems together with any networks to which they might be connected, but also must assure that the protective mechanisms installed in them are not accidentally or intentionally thwarted or subverted by other systems with which data exchange connections are established.

The range of subjects includes local area networks, regional and wide area networks, homogeneous and heterogeneous networks, and the networks which can arise for varying periods of time as a result of operational requirements for temporary or semi-permanent interconnections which can exist for varying periods of time.

Such networks will include dial-up or other connections which permit an organization's employees to work from their homes, and those external connections enabling organizations to transact mutually linked business activities e.g. such as will take place under EDI agreement.

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

WG11.6 – Identity Management
est. 2006

AIMS

The aim is to promote through education, research and outreach, the awareness and understanding of:
1. Identity management in general, and, in this context:
   - identity management applications and methodologies;
   - optical and electronic document security;
   - potential and actual role and function of biometrics in particular;
2. Methods and techniques that can help to evaluate (specific) biometric technologies;
   - operational aspects of biometrics;
   - legal aspects of the application of biometrics;
   - impact of biometrics on society;
   - methods and techniques that can help to improve the quality of biometric technology (performance, privacy, compliance); and
3. National identity management in particular:
   - national identity management as (a kind of) federated identity management;
   - national identity management as a part of multilateral identity management;
   - (possible) role and effectiveness of identity management in fighting (inter)national fraud, crime and terrorism;
   - methods and techniques that can help to improve the quality of national identity management.

SCOPE

1. To establish and expand a common *identity management lexicon* so that the international community speaks the same language.
2. To propose, define and evaluate identity management applications and methodologies that will meet the standards of decision-makers in the public and private sector.
3. To propose, define and evaluate optical and electronical document security technologies that will meet the standards of decision-makers in the public and private sector.
4. To propose, define and evaluate biometric technologies and methodologies to be incorporated in (national) identity management that will meet the standards of decision-makers in the public and private sector.
5. To promote through education, research and outreach, a wider understanding of the legal, social and operational issues related to (national) identity management in general and the technologies mentioned above in particular.
6. In order to promote discussion related to research in the field, WG 11.6 will foster cooperation between:

- International communities
- Stakeholders, scientists and industry.
- Technicians, sociologists, biologists, philosophers, psychologists and political scientists.

WG11.8 - Information Security Education
est. 1991

AIMS

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

SCOPE

- To establish an international resource center for the exchange of information about education and training in information security.
- To develop model courses in information security at the university level.
- To encourage colleges and universities to include a suitable model course in information security at the graduate and/or undergraduate level in the disciplines of computer science, information systems and public service.
- To develop information security modules that can be integrated into a business educational training program and/or introductory computer courses at the college or university level.
- To promote an appropriate module about information security to colleges and universities, industry and govern-ment.
- To collect, exchange and disseminate information, relating to information security courses conducted by private organizations for industry.
- To collect and periodically disseminate an annotated bibliography of information security books, feature articles, reports, and other educational media.

WG11.9 - Digital Forensics
est. 2004

AIMS

The aim of the IFIP WG11.9 group is to promote through education, research and outreach, the awareness and understanding of (i) the scientific methods and techniques that help to tell about a computer related security incident (including those that involve converging digital technology), what occurred, when it occurred, how it occurred, what resources were affected and who initiated the incident, in a manner that will support a legal action, and (ii) the operational and legal aspects of new and emerging digital technology so as to help develop such methods and techniques.

SCOPE

- To establish and expand a common digital forensics lexicon so that international community speaks the same language.
- To propose, define and evaluate core technologies that assist in the discovery, explanation and presentation of conclusive and persuasive digital evidence that will meet the heightened scrutiny of the courts and other decision-makers in military and civilian environments.
- To promote through education, research and outreach, a wider understanding of the legal, social and operational issues related to digital forensics.
- To foster cooperation between international communities so as to promote scholarly discussion related to digital forensic research and its application.

WG11.10 – Critical Infrastructure Protection
est. 2006

AIMS

The principal aim of IFIP WG 11.10 is to weave science, technology and policy in developing and implementing sophisticated, yet practical, solutions that will help secure information, computer and network assets in the various critical infrastructure sectors. Information infrastructure protection efforts at all levels – local, regional, national and international – will be advanced by leveraging the WG 11.10 membership's strengths in sustained research and development, educational and outreach initiatives.

SCOPE

- To identify information security challenges and implementation issues that are common (as well as unique) to infrastructure sectors.
- To elucidate the interdependencies existing between infrastructure sectors and their information security implications.
- To identify core security principles and techniques that can be applied to address problems in information infrastructure protection.
- To develop sophisticated information infrastructure protection solutions that blend scientific methods, engineering techniques and public policy.

WG11.11 – Trust Management
est. 2006

AIMS

Working Group 11.11 aims to provide a forum for cross-disciplinary investigation of the application of trust as a means of establishing security and confidence in the global computing infrastructure, recognizing trust as a crucial enabler for meaningful and mutual beneficial interactions. The working group will bring together researchers with an interest in complementary aspects of trust, from both technology oriented disciplines and the field of law, social sciences and philosophy. In this way the working group will provide the common background necessary for advancing towards an in-depth understanding of the fundamental issues and challenges in the area of trust management in open systems.

The main membership will most likely be specialized researchers, both from universities and company laboratories. Government organizations and IFIP member societies and their members will be the main users of the results of the group.

Working Group 11.11 has a link to the area of other groups, both inside and outside IFIP and the group will seek actively for close cooperation with these groups.

SCOPE of the working group (non-exhaustive and non-exclusive):

- semantics and models for security and trust;
- trust management architectures, mechanisms and policies;
- trust in e-commerce, e-service, e-government;
- trust and privacy; (link with wg 9.6 / 11.7)
- identity and trust management; (link with wg 11.6)
- trust securing digital as well as physical assets;
- social and legal aspects of trust (link with wg 9.6 / 11.7)

TC 12 - Artificial Intelligence - Aims and Scopes

est. 1989, revised 1991, 2004

AIMS

- To foster the development and understanding of Artificial Intelligence and its applications worldwide.
- To promote interdisciplinary exchanges between Artificial Intelligence and other fields of information processing.
- To contribute to the overall aims and objectives and further development of IFIP as the international body for Information Processing.

SCOPE

Artificial Intelligence covers a wide range of techniques, which can be applied to a very wide range of application areas. Its subfields include (but are not restricted to) the following:

- Automated Reasoning
- Belief Revision
- Case-Based Reasoning
- Computer Vision
- Constraint Satisfaction
- Data Mining
- Evolutionary Algorithms
- Intelligent Agents
- Intelligent Planning and Scheduling
- Intelligent Robotics
- Knowledge Acquisition
- Knowledge Discovery and Data Mining

- Knowledge Engineering
- Knowledge-Based Systems
- Knowledge Management
- Knowledge Representation and Reasoning
- Machine Learning
- Machine Translation
- Model-based Reasoning
- Natural Language Processing
- Neural Nets
- Pattern Recognition
- Qualitative Reasoning
- Search
- Semantic Web
- Temporal Reasoning

WG12.1 - Knowledge Representation and Reasoning
est. 2004

AIM

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

SCOPE

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

- Abductive Reasoning
- Inductive Reasoning
- Non-monotonic Reasoning
- Reasoning about Actions and Change
- Spatial Reasoning
- Temporal Reasoning
- Automated Reasoning
- Computational Logic
- Logic Programming
- Situation Calculus
- Production Systems

- Semantic Networks
- Frames
- Object-orientated Representation
- Bayesian Networks

WG12.2 - Machine Learning and Data Mining
est. 2003, revised 2005

AIM

To explore computer methodology and algorithms that improve automatically through experience. Applications range from data mining programs that discover general rules in large data sets, to information filtering systems that automatically learn users' interests.

SCOPE

- Concept Learning and Inductive Learning
- Association Rules
- Case-based Learning
- Artificial Neural Networks
- Bayesian Learning
- Uncertainty Learning
- Reinforcement Learning
- Evolutionary Learning
- Perceptual Learning
- Computational Learning Theory
- Population-based Learning
- Data Mining
- Application Case Study

WG12.3 - Intelligent Agents
est. 2003

AIM

To study and develop theory and techniques for intelligent agents.

SCOPE

- Theory and agent modeling
- Agent architectures

- Agent-based software engineering
- Coordinating, cooperation and negotiation
- Evolution, adaptation and learning
- Multiple agents
- Mobile agents
- Agent-based grid computing
- Agent-based applications

WG12.4 - (joint with WG2.12, see TC2)

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

AIM

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

SCOPE

All areas of application in which Artificial Intelligence techniques can give benefits to users.

Techniques for application development including:

- Conceptual frameworks for application specification and design
- User interface design
- Integration of AI software and systems with conventional databases, programming languages, and operating systems
- Related research issues such as knowledge acquisition, learning, validation and implementation techniques.

WG12.6 - Knowledge Management
est. 1993, revised 2003, 2008

AIMS

- To develop advanced methods for organizing, accessing and exploiting multidisciplinary knowledge within organizations and enterprises.
- To bring together various areas of KM research and technology to meet this challenge, e.g. knowledge transfer and modeling, optimisation, natural language understanding, speech and image processing and understanding, reasoning methods, learning methods, communication methods, social aspects, complex problem solving, decision support, human-machine interaction, serious games.
- To develop technology for intelligent support of Knowledge Cultivators, e.g. intelligent knowledge navigation systems, multi modal interface, automatic translation, competency management, e- and m-activities such as learning, collaborative research and design, business, process control.
- To share worldwide experience in the above domains.

SCOPE

Methodology, technologies, processes, and systems for supporting all aspects of knowledge management as communication, collaboration, learning, innovation, decision making, investigation, embedding and archiving.

Knowledge thinking.

Knowledge Holonomy – the interplay between individual, organizational, enterprise and society levels. Cross organisational.

Technology trends include:

- Intelligent multimodal knowledge acquisition and retrieval
- Knowledge discovery
- Technology for sustainable development
- Convergence of intelligences
- Technology for Knowledge Innovation
- Human machine interaction and collaboration
- Virtual reality and Games for KM

WG12.7 - Computer Vision
est. 2003 – dissolved 2008

TC 13 - Human-Computer Interaction - Aims and Scopes

est. 1989

AIMS

To encourage development towards a science and a technology of human-computer interaction, the Technical Committee will pursue the following Aims:

- to encourage empirical research (using valid and reliable methodology, with studies of the methods themselves where necessary);
- to promote the use of knowledge and methods from the human sciences in both design and evaluation of computer systems;
- to promote better understanding of the relation between formal design methods and system usability and acceptability;
- to develop guidelines, models and methods by which designers may be able to provide better human-oriented computer systems;
- to co-operate with other groups, inside and outside IFIP, so as to promote user-orientation and "humani-zation" in system design.

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.).

WG13.1 - Education in HCI and HCI Curricula
est. 1990, revised 1991

AIMS

- to improve HCI education at all levels of higher education;
- to coordinate and unite efforts to enhance the development of HCI curricula;
- to recommend fundamental structures for curricula and course materials and for their adaptation to the various national educational systems;
- to advance international recog-nition of qualifications in this field, and
- to promote the teaching of HCI

SCOPE

The scope of the Working Group will build upon existing work in IFIP member countries to include:

- the evaluation of the needs of industry to enhance the qualifications of HCI, based upon societal objectives to improve the work environment;
- the collation of existing curricula, course literature and other relevant materials developed by member societies or institutions who are contributing to their work;
- the design of recommendations and guidelines for HCI curricula at different levels of higher education, and the adaptation of the guidelines to the cultural situation within which the respective education systems are based.

SIG13.1 - Interaction Design and International Development
est. 2008

AIMS

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

WG13.2 - Methodology for User Centred System Design
est. 1992

AIMS

The principal objective of the Working Group will be:

- to foster research, dissemination of information and good practice in the methodical application of HCI to software engineering.

This objective decomposes into two sub-goals:

- to encourage research into and development of HCI principles, methods and techniques applied to system design and integrated with principles, methods and tools in software engineering, and
- to encourage research into human action within the system development process and to promote knowledge transfer from such studies into the construction of integrated HCI-SE design methods.

SCOPE

- evaluation and synthesis of HCI specification and design methods;
- implications of cognitive psychology for the design of human-computer interfaces;
- evaluation and study of different approaches to design delivery:
  cognitive models, design rationales, task artifact cycles, engineering principles, development methods;
- methods and techniques of human factors in software engineering as practised in industrial environments;
- human behaviour in software development, i.e. cognitive studies of software engineering;
- cooperative work techniques applied to software development.

WG13.3 - Human-Computer Interaction and Disability
est. 1992, revised 1994, 2001

AIMS

The principal objectives of the Working Group will be:

- to make HCI designers aware of the needs of people with disabilities;
- to recommend guidelines for the design of HCI to facilitate the use of computers by people with disabilities;
- to monitor the latest developments in the design of HCI and their impact on accessibility and usability;
- to encourage the development of information systems and complementary tools which permit the adaptation of the human interface for each specific user.

SCOPE

There are over 500 million people with disabilities in the world. Social exclusion and many other problems often result from their situation. It is recognised that developments in IT/HCI can often help with problems, for example to maximise choice and integration. However, there is also a danger that such developments can lead to the further exclusion of this user group if they are not designed from the beginning with universal access as an aim.

Working Group 13.3 intends to make designers of information systems and complementary tools aware of the needs of this group in order to encourage the development of more appropriate tools for access and usability. As

a result, systems will become universally accessible, and the market for them will increase.

Specifically the scope of WG13.3 will include the following activities:

- coordination and exchange of information with other relevant bodies;
- collaboration with institutions interested in this field of HCI and disability;
- focussed HCI orientation to enable people with disabilities to use information systems and complementary tools for positive advantage.

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

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

AIMS

This working group aims to support practitioners, regulators and researchers to develop leading edge techniques in hazard analysis and the safety engineering of computer-based systems. Particular emphasis will be on the role of human error both in the development and in the operation of complex processes and on techniques that can be easily integrated into existing system engineering practices. Specifically, the aims are:

- to provide a framework for studying human factors that relate to systems failure;
- to provide a forum for practitioners, regulators and researchers interested in the 'human contribution' to major accidents and incidents;
- to identify leading edge techniques for the development of safety-critical interactive systems and integrate them with existing systems engineering techniques;
- to support and guide international accreditation activities in the area of safety-critical systems.

SCOPE

To build on existing work in IFIP member countries in the following areas:

- techniques for analysing human, managerial and organisational factors that relate to the occurrence of accidents;
- the integration of human factors concerns into risk analysis and assessment;
- the integration of human factors concerns into systems engineering techniques for safety-critical systems development;
- the ergonomics of human-computer interaction with safety-critical applications;
- the role of human error both in the development and in the operation of complex processes.

WG13.6 - Human-Work Interaction Design
est. 2005

AIMS

The aims of the HWID working group are:

- To encourage empirical studies and conceptualisations of the interaction among humans, their variegated social contexts and the technology they use both within and across these contexts.

- Promote the use of knowledge, concepts, methods and techniques that enables user studies to procure a better apprehension of the complex interplay between individual, social and organisational contexts and thereby a better understanding of how and why people work in the ways they do.
- Promote a better understanding of the relationship between work-domain based empirical studies and iterative design of prototypes and new technologies.
- Establish a network of researchers, practitioners and domain/subject matter experts working within this field.

Thus on an overall level the working group aims at establishing relationships between extensive empirical work-domain studies and HCI design.

SCOPE

A Human-Work Interaction Design group (HWID) will provide the basis for an improved cross-disciplinary co-operation and mutual inspiration among researchers, but it will also lead to a number of new research initiatives and developments, as well as to an increased awareness of HWID in existing HCI educations. Complexity will be a key notion in the working group, it is not a priori defined or limited to any particular domains. A main target of the work group is the analysis of and the design for the variety of complex work and life contexts found in different business.
Technology is changing human life and work contexts in numerous, multi-faceted ways:

- Interfaces between collaborating individuals; advanced communication networks
- Small and large-scale distributed systems
- Multimedia and embedded technologies
- Mobile technologies and advanced "intelligent" robots
- With this evolution, toward new ways of working, has followed an intensive demand for techniques and technologies that address contemporary issues connected to:
- Communication, collaboration, and problem solving
- Large information spaces, variability, discretion, learning, and information seeking

This evolution toward new ways of working and living must be embraced as a challenge to current knowledge and practice and one, moreover, which presents exciting new opportunities in:

- Epistemology, with knowledge acquisition, knowledge creation, management and knowledge sharing
- The symbiosis of users and contexts of use, between work and life-quality and with both professional and individual development.

It is a challenge to design applications that support users of technology in complex and emergent organisational and work contexts, and thus opportunities exist to focus on methods, theories, tools, techniques and prototype design on an experimental basis.
Under these circumstances, the primary question is less whether we choose to study the use of a particular computer application or prefer, instead, to conduct bottom up empirical experiments of work contexts. The new problem is how we can understand, conceptualise and design for the complex and emergent contexts in which human life and work are now embroiled. This problem calls for cross disciplinary, empirical and theoretical approaches that focus on Human-Work Interaction Design, meaning that the technology itself and particularly the design and use of technologies mediates the interaction between humans and specific work contexts.

WG13.7 – Human - Computer Interaction & Visualization (HCIV)
est. 2008

AIMS

- To establish a study and research program that will combine both scientific work and practical applications in the fields of Human – Computer Interaction and Visualization.
- To promote the development of “effective” visualizations that benefit from the capabilities and functionalities of the human visual system, e.g. visual perception and other cognitive abilities.
- To promote the development of practical applications, e.g. in engineering, which benefit from the newly developed concepts and which provide the necessary fields for evaluation.
- To integrate several additional aspects of further research areas, such as Scientific Visualization, Data mining, Information Design, Computer Graphics, Cognition Sciences, Perception Theory, or Psychology, into this approach.

Thus the WG will provide a creative work environment for performing innovative research at the interface between Human – Computer Interaction and Visualization.

TC 14 - Entertainment Computing - Aims and Scopes

est. 2002, rev. 2006

AIMS

To encourage computer applications for entertainment and to enhance computer utilization in the home, the technical committee will pursue the following aims:

- to enhance algorithmic research on board and card games
- to promote a new type of entertainment using information technologies
- to encourage hardware technology research and development to facilitate implementing entertainment systems, and
- to encourage non-traditional human interface technologies for entertainment.

SCOPES

(1) Algorithm and strategy for board and card games
-- algorithms of board and card games
-- strategy control for board and card games
-- level setup for game and card games

(2) Novel entertainment using ICT
-- network-based entertainment
-- mobile entertainment
-- location-based entertainment
-- mixed reality entertainment

(3) Audio
-- music informatics for entertainment
-- 3D audio for entertainment
-- sound effects for entertainment

(4) Entertainment human interface technologies
-- haptic and non-traditional human interface technologies
-- mixed reality human interface technologies for entertainment

(5) Entertainment robots
-- ICT-based toys

-- pet robots
-- emotion model and rendering technologies for robots

(6) Entertainment systems
-- design of entertainment systems
-- entertainment design toolkits
-- authoring systems

(7) Theoretical aspects of entertainment
-- sociology, psychology and physiology for entertainment
-- legal aspects of entertainment

(8) Video game and animation technologies
-- video game hardware and software technologies
-- video game design toolkits
-- motion capture and motion design
-- interactive story telling
-- digital actors and emotion model

(9) Interactive TV and movies
-- multiple view synthesis
-- free viewpoint TV
-- authoring technologies

(10) Edutainment
-- entertainment technologies for children's education
-- open environment entertainment robots for education

WG 14.1 – Digital Storytelling
est. 2002, rev. 2006

SCOPES

Storytelling is one of the core technology of entertainment. Especially with the advancement of information and communication technologies (ICT), new type of entertainment called video games have been developed where interactive story development is the key that makes those games really entertaining. At the same time, however, it has not been studied well what is the difference between the interactive storytelling and the conventional storytelling. Also as the development of interactive storytelling need a lot of time and human power, it is crucial to develop technologies for automatic or semiautomatic story development. The objective of this working group is to study and discuss these issues.

WG 14.2 – Entertainment Robot
est. 2004, rev. 2006

SCOPES

Robot is becoming one of the most appealing entertainment. New entertainment robot and/or pet robot is becoming popular. Also, from theoretical point of view, compared with computer graphics based characters/animations, robot is an interesting research object as it has physical entity. Taking these into considerations, it was decided at the SG16 annual meeting that a new working group on entertainment robot is to be established.

WG 14.3 – Theoretical Basis of Entertainment
est. 2003, rev. 2006

AIMS

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

SCOPES

Although there are huge entertainment industries already such as video games, toys, movies, etc., little academic interest has been paid on such questions as what is the core of entertainment, what is the technologies of entertainment can be applied to other areas such as education, learning and so on. The main objective of this WG is to study these issues.

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

AIMS

To research and develop computing techniques for the improvement of computer games and other forms of computer entertainment.

SCOPES

The scope of this workgroup includes, but is not limited to the following applications, technologies and activities.

Applications:

- Analytical games (e.g., Chess, Go, Poker)
- Commercial games (e.g., Action games, Role-playing games, Strategy games)
- Mobile games (e.g., Mobile phones, PDA's)
- Interactive multimedia (e.g., Virtual reality, Simulations)

Technologies:

- Search Techniques
- Machine Learning
- Reasoning
- Agent Technology
- Human-Computer Interaction

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

AIMS

1. Foster the ethical design, development, implementation, applications and use of entertainment computing.
2. Encourage surveys and studies on social, ethical and cultural aspects of entertainment computing.
3. Develop methodologies for studying social, ethical and cultural implications of entertainment computing.
4. Establish a global platform for interaction, exchange, joint initiatives and co-operation between such groups as:
    - the end users of entertainment computing
    - industrial developers and designers of entertainment computing
    - policy, decision making, social and consultative bodies
    - academics and scientists.

SCOPES

The social and ethical implications of entertainment computing including:

- actual and potential human usefulness or harm of entertainment computing
- social impact of these technologies
- developments of the underlying infrastructure
- rationale in innovation and design processes
- dynamics of technology development
- ethical development
- cultural diversity and other cultural issues
- education of the public about the social and ethical implications of entertainment computing, and of computer professionals about the effects of their work.

WG 14.5 explicitly cares about the position of, and the potentials for, vulnerable groups such as children, the less-educated, disabled, elderly and non-employed people, cultural minorities, unaware users and others.

WG 14.6 – Interactive TeleVision (ITV)
est. 2007

AIMS

- To promote visibility and to increase the impact of research and development in the ITV field
- To bring together interdisciplinary approaches to ITV research and development issues (e.g. content production, computer science, media studies)
- To encourage cooperation between researchers and other established bodies and organizations, through the development of joint project proposals

- To facilitate the development of suitable academic and practical teaching programs

SCOPES

- Alternative content distribution (mobile TV, peer-to-peer TV, IPTV)
- Interactive storytelling, user contributed content
- Interactive and personalized advertising systems
- Applications for t-commerce, t-learning, t-health, entertainment
- Ethical, regulatory and policy issues
- Interoperability of middleware, standards, multimedia metadata
- Authoring, production and virtual reality systems
- Content management, digital rights management
- Multimedia, graphics, broadcast and video technology
- Content enriched communication services, video conferencing
- Personalization, user modeling, intelligent user interfaces
- Usability, accessibility, universal access, multimodal interaction

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WG 14.7 – Art and Entertainment
est. 2007

SCOPE

The influence of technology and scientific innovation is profoundly changing how we express ourselves. Arts and Entertainment is a new field that represents the exciting convergence of technology with the established design discipline. The Media Arts and Cinema offers a comprehensive approach to design that encourages innovation by media artists, scientists and engineers. The working group will pursue the following activities:

AIMS

- To explore the way art and cinema aesthetics can play a role in different areas of computer science.
- One of its goals is to modify computer science by the application of the wide range of definitions and categories normally associated by making art and cinema.
- To go beyond the usual definition of art and cinema aesthetics in computing, which most often refers to the formal, abstract qualities of such structures – a beautiful proof, or an elegant diagram.
- To research the broader spectrum of aesthetics – from abstract qualities of symmetry and form to ideas of creative expression and pleasure – in the context of computer science.
- To prove the assumption behind art and cinema aesthetic computing that the field of computing will be enriched if it embraces all of aesthetics.

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