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IFIP

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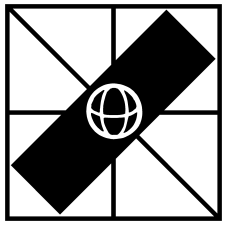

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L. Auerbach	U.S.A.	1960-1965
A. Speiser	Switzerland	1965-1968
A. A. Dorodnicyn	Russia	1968-1971
H. Zemanek	Austria	1971-1974
R. I. Tanaka	U.S.A.	1974-1977
P. A. Bobillier	Switzerland	1977-1983
K. Ando	Japan	1983-1986
A. W. Goldsworthy	Australia	1986-1989
Bl. Sendov	Bulgaria	1989-1992
A. Rolstadas	Norway	1992-1995
K. Bauknecht	Switzerland	1995-1998

INTRODUCTION

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

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

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

Access may be obtained as follows:

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

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

IFIP IN PERSPECTIVE

Origins

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

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

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

Membership

Today IFIP has 45 organizations as Full Members, 4 Corresponding Members, 1 Associate Member and 11 Affiliate Members, representing countries from all regions of the world.

Organization

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

Congresses and Major Conferences

IFIP's flagship event is its World Computer Congress, currently held biannually. The 15th Congress was jointly held in Vienna, Austria and Budapest, Hungary from 31 August to 4 September 1998. The 16th IFIP World Computer Congress will be held from 21 to 25 August 2000 in Beijing, China <http://www.wcc2000.org>. Montreal, Canada was chosen as the lieu of the 17th IFIP World Computer Congress in the year 2002.

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

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

Technical Activities

At the heart of IFIP lie its Technical Committees that, between them, count on the active participation

of some two thousand people world-wide. There are twelve such Committees. Each Technical committee is, in effect, a management team responsible for a given field of activity and for the work of from three to nine Working Groups, a total of 80. These Groups work in a variety of ways to share experience and to develop their specialized 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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IFIP Newsletter

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

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Newsletter online:

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

Relationships

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

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

IFIP Secretariat

The administrative hub of IFIP is our secretariat at Laxenburg, near Vienna. The Executive Director is Plamen Nedkov who with the assistance of Dorothy Hayden and Ilse Ockermueller is responsible for the wide range of tasks vital to the operation of such a far-flung international body. Good communication and information are essential and our secretariat provides a comprehensive service using up-to-date technology.

IFIP's Mission Statement

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

Principal Elements

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

16th WORLD COMPUTER CONGRESS

"Information Processing Beyond Year 2000"

Beijing, China, 21 - 25 Aug 2000

URL: http://www.wcc2000.org

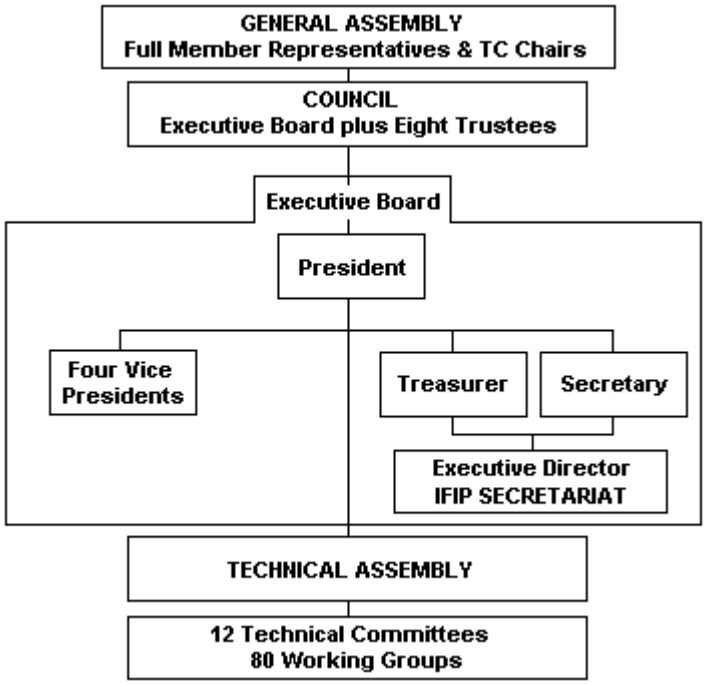
Congress 2000 is planned as an umbrella organization of pre and post congress tutorials, exhibition, technical visits and 8 parallel conferences in the following fields:

- ICCT 2000: Communication Technologies
- ICDA 2000: Chip Design Automation
- ICEUT 2000: Educational Uses of Information and Communication Technologies
- ICS 2000: Software - Theory and Practice
- ICSP 2000: Signal Processing
- IIP 2000: Intelligent Information Processing
- ITBM 2000: Information Technology for Business Management
- SEC 2000: Information Security

International Program Committee Chair: Prof. B. Wah

Organizing Committee Chair: Mr. He Chuan

IFIP Organisation Chart



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R. Aiken	Vice-President	ACM	98/2001	TA, Publications, Finances
J. Granado	Vice-President	PT	98/2001	AMB, Finances, Strat. Planning
W. Grafendorfer	Vice-President	AT	99/2002	Marketing, Contracts, Member Soc. Relations, Youth Forum
T. Miura	Vice-President	JP	99/2000	Industry, Trustee Nominations
D. Khakhar	Treasurer	SE	99/2002	IFIPSEC, AMB, Develop. Countries
R. Johnson	Secretary	GB	99/2002	IFIPSEC, Admissions, S&B, Int. Awards

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K. Boyanov	BG	98/2000
G. Boynton	CA	99/2002
K. Brunnstein	DE	99/2001
C. Gergely	HU	98/2000
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est. 1989 as SG14 / approved in 9/96 as TC 1

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- 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 develop 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.

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WG 1.5 (CELLULAR AUTOMATA AND MACHINES) est. 1994

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TC 2 (SOFTWARE: THEORY AND PRACTICE)

est. 1962, revised 1982, 1990

AIMS

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

SCOPE

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

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

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WG 2.4 (SYSTEM IMPLEMENTATION LANGUAGES) est. 1973, revised 1991, 1992

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

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WG 2.9 (SOFTWARE REQUIREMENTS ENGINEERING) est. 1993

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TC 3 (EDUCATION)

est. 1963, revised 1992, 1995

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.

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est. 1966, revised 1998

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

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

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

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WG 3.5 (INFORMATICS IN ELEMENTARY EDUCATION) est. 1983

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WG 3.6 (DISTANCE LEARNING) est. 1987

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

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TC 5 (COMPUTER APPLICATIONS IN TECHNOLOGY) est. 1970

AIMS
To promote and coordinate the exchange of information on computer applications in technology.

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

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

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

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

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WG 5.4 (INDUSTRIAL SOFTWARE QUALITY AND CERTIFICATION)
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WG 5.6 (MARITIME INDUSTRIES) est. 1974

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WG 5.7 (INTEGRATED PRODUCTION MANAGEMENT) est. 1978, revised 1986, 1989

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

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

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TC 6 (COMMUNICATION SYSTEMS)

est. 1971, revised 1987 and 1991

AIMS

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

SCOPE

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

- Work fostering the development of standards;
- Formal protocol specification and verification techniques;
- National and international communication networks;
- Local and wide area communication networks;
- Integrated services digital networks;
- Network management;

- Distributed computing and information interchange between databases within a network of computers;
- Communication systems in the office and manufacturing area;
- Communications tools and communication services;
- Promotion of existing and innovative communication concepts both in developing countries and in developed countries;
- Teleservice architectures;
- Multimedia communications;
- New applications of communication systems, e.g. electronic commerce.

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est. 1973, revised 1982, 1999

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WG 6.2 (BROADBAND COMMUNICATIONS) est. 1994

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WG 6.3 (PERFORMANCE OF COMMUNICATION SYSTEMS) est. 1994

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WG 6.4 (HIGH PERFORMANCE NETWORKS) est. 1979, revised 1991, 1996

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WG 6.6 (NETWORK MANAGEMENT FOR COMMUNICATION NETWORKS) est. 1986

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

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WG 6.10 (PHOTONIC NETWORKING) est. 1998

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TC 7 (SYSTEM MODELLING AND OPTIMIZATION) est. 1972

AIMS

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

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

SCOPE

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

- on-line and off-line computational techniques in modelling and control of dynamic systems;
- trajectory analysis and computation;
- 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.

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

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WG 7.3 (COMPUTER SYSTEM MODELLING) est. 1973

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WG 7.4 (DISCRETE OPTIMIZATION) est. 1986

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

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

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WG 7.7 (STOCHASTIC OPTIMIZATION) est. 1989

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TC 8 (INFORMATION SYSTEMS) est. 1966, revised 1990

AIMS

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

SCOPE

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

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

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

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

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WG 8.3 (DECISION SUPPORT SYSTEMS) est. 1981

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WG 8.4 (OFFICE INFORMATION SYSTEMS) est. 1986

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

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

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WG 8.7 (INFORMATICS IN MULTINATIONAL ENTERPRISES) est. 1996

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WG 8.8 (SMART CARDS) est. 1998

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

AIMS

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

SCOPE

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

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WG 9.1 (COMPUTERS AND WORK) est. 1977

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WG 9.2 (SOCIAL ACCOUNTABILITY) est. 1977

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

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WG 9.4 (SOCIAL IMPLICATIONS OF COMPUTERS IN DEVELOPING COUNTRIES)
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TC 10 (COMPUTER SYSTEMS TECHNOLOGY) est. 1976, revised 1987

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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.

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WG 10.6 (NEURAL COMPUTER SYSTEMS) est. 1991, revised 1992

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

AIMS

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

SCOPE

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

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

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WG 11.3 (DATABASE SECURITY) est. 1987

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

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

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WG 11.8 (INFORMATION SECURITY EDUCATION) est. 1991

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

AIMS

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

SCOPE

- Further develop the foundation for AI on the basis of computer science principles.

- Contribute techniques from AI to the enrichment of computer science and information processing.
- Develop AI techniques as part of information processing technologies to enable and advance practical applications.

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

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WG 12.6 (INTELLIGENT INFORMATION MANAGEMENT) est. 1998

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TC 13 (HUMAN-COMPUTER INTERACTION) est. 1989

AIMS

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

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

SCOPE

The main orientation is toward the users, especially the non-computer-professional users, and how to improve the human-computer relationship for them.

Areas of study include:

- the problems people have with computers;
- the impact of computers upon people in both individual and organizational contexts;
- the determinants of utility, usability and acceptability;
- the appropriate allocation of tasks between computers and people;
- modelling the user as an aid to better system design;
- harmonising the computer to the characteristics and needs of the user.

While the Scope is thus set wide, with a tendency towards general principles rather than particular systems, it is recognised that progress will only be achieved through both general studies to advance theoretical understanding and specific studies on practical issues (e.g. interface design standards, software system consistency; documentation, appropriateness of alternative communication media, human factors guidelines for dialogue design, the problems of integrating multi-media systems to match user needs and organizational practices etc.).

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

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

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WG 13.3 (HUMAN-COMPUTER INTERACTION AND PEOPLE WITH SPECIAL NEEDS) est. 1992

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

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

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