IFIP newsletter
International Federation for Information Processing
Editor:
Dr. Jack L. Rosenfeld
Distributed by
Kluwer Academic Publishers

Vol. 18. no. 2; June 2001

First **I FIP** Conference on E-commerce, E-business, and E-government

Three IFIP Technical Committees (TCs) will be sponsoring the First IFIP Conference on E-commerce, E-business, and E-government 3-5 October. It will provide a forum for users, engineers, and scientists in academia, industry, and government to present their latest findings in these applications and the underlying technology to support the applications. Areas of particular interest include but are not limited to:

Pre-sales support, ordering, settlement, delivery, and payment
Post-sales services and customer care
Innovative business models and business process re-engineering
Interorganizational systems, virtual organizations, and virtual markets
Supply chains, work-flow management. control, and audit mechanisms
Procurement, bidding, and auctions
Trading of intangible goods
Information and communication platforms. mobile agents, and unified messaging
Security, privacy, and consumer protection
Smart Cards and biometrics
Information retrieval, data mining, and semantic web
Legal. social, and cross-cultural issues
Trust and confidence in digital signatures and certificates
Mobile e-commerce and ubiquitous electronic markets
Innovative government services for the citizen
Strategic management of e-commerce , e-business, and e-government systems

The three sponsoring TCs are TC6 on Communication Systems, TC8 on Information Systems, and TC 11 on Security and Protection in Information Processing Systems. The General Chair of the conference is Prof. Kurt Bauknecht (CH), the previous president of IFIP. and the International Program Committee chairs are Prof. Beat Schmid (CH) and Dr. Volker Tschammer (DE), supported by a 43-member committee.

For further information, please send e-mail to I3E@ifi.unizh.ch or visit the Web site at http://www.ifi.unizh.ch/.3E-conference/ (capital 1 and E must be used). Registration is done on the Web at the same site. O

World Conference on IT Professionalism

*by Dr Roger Johnson (GB)**

[At the March IFIP Council in Capri (see the article on this page). Dr. Roger Johnson (GB). the IFIP secretary, reported on an initiative of the Executive Board that has its origins dating back to 1994, when an activity was begun on the rationalization of international standards concerning the qualifications of professionals in the Information Technology field. That activity was terminated last 'ear because of lack of progress. Dr. Johnson's description of the new activity is printed here.]

Information Technology (IT) is a truly global business. IT applications can be s pecified in one country, written in a second, installed in a third, and owned by a company in a fourth, while transactions can he initiated via the Internet from anywhere in

* IFIP secretary

Continued on page 5

IFIP Council Meets in Italy

The IFIP Council met in Capri, Italy, 7-8 March, preceded by three days of related meetings. Prof. Arrigo Frisiani, the representative to IFIP oldie Italian Association for Informatics and Automatic Computation (AICA, the Italian Member society [see the article on page 20 of the March IFIP *Newsletter]),* said that the host society had chosen the island as the site of the meeting and ordered bad weather and rough seas in order to make it difficult for Council members to skip the meetings. Fortunately for the spouses of Council members, ferries to the mainland did run, and the weather was mostly pleasant.

Little controversy was heard during the meetings. In fact, consensus was so prevalent that this reporter cannot recall any contested vote being taken. The major actions and reports heard during the meetings were as follows:

Continued on page 5

CONTENTS

IFIP Conference on E-commerce, E-business, and E-government 1
IFIP Council Meets in Italy 1
World Conference on IT Professionalism . I
World Information Technology Forum .....
IFIP Digital Library Project 2
IFIP Congresses Past and Future 3
Regional Meeting Held in Slovenia 4
Obituary: Prof. Tom Kilburn 4
National Abbreviations 3
Calls for Papers 8
New IFIP Books 8
Future IFIP Meetings 8
Calendar of Events 12

IFIP NEWSLETTER

Editor:

Dr. Jack L. Rosenfeld
15 Eldridge Ave.
Ossining, NY 10562-4403, U.S.A.
telephone: +1 (914) 941-5222
e-mail: j.l.rosenfeld@alum.mit.edu

Published quarterly by

IFIP Secretariat
Hofstrasse 3
A-2361 Laxenburg, Austria
telephone: +43 2236 73616
facsimile: +43 2236 736169
e-mail: ifip@ifip.or.at

CORRESPONDENTS

TC1 R. Gorrieri (IT)
TC2 J. Urban (US/IEEE—CS)
TC3 B. Samways (GB)
TC5 J. Vlietstra (US)
TC6 0. Spaniol (DE)
TC7 J. Dolezal (CZ)
TC8 B. Glasson (AU)
TC9 J.A.N. Lee (US)
TC10 E. Dirkx (BE)
TC13 J. Hammond (AU)

Printed for **IFIP** by the courtesy of Kluwer Academic Publishers. ISSN 1024-8102.

Please apply to the **IFIP** Secretariat, at the address given above, for copies of the ***IFIP*** *Newsletter* and to be added to or removed from the mailing list.

The Secretariat can also answer inquiries about IFIP.

The ***IFIP*** *Newsletter* may be reprinted, translated, and reproduced, in whole or in part, except for material specifically denoted as copyright protected. In order to reprint material protected b ^ copyright, apply for permission to the **IFIP** Secretariat, giving all pertinent details.

Reprinting in national and local information processing periodicals is encouraged. Acknowledgement to **IFIP** would be appreciated.

Kindly submit material for the ***IFIP*** *Newsletter* three months before the publication date.

Please send announcements of conferences. workshops, and other meetings directly to the Secretariat, which prepares the Calendar of Events. Calls for papers should be sent to both the Secretariat and the *Newsletter* editor.

IFIP on the Internet

IFIP information (including this *Newsletter)* is available through the Internet as follows:
anonymous ftp: ftp.ifip.or.at
WWW: http://www.ifip.or.at

World Information Technology Forum

At the March **IFIP** Council in Capri (see the article on page **1), Prof. Dipak Khakhar** (SE), chair of the Developing Countries Support Committee (DCSC), presented a proposal for a biennial conference in developing countries in order to promote Information Technology (IT) in such countries. The proposal states the following:

The aim of the World IT Forum (WITFOR) is to organise state-of-the-art conferences in emerging nations on global trends in information technology. By organising WITFOR, the **IFIP** DCSC has the unique capacity to move its global IT-equity [equality of access to IT by all nations and peoples] agenda forward. WITFOR can:

1. Help put IT equity centrally on the agendas of different organisations, governments, and groups now involved with the technology.

2. Work with different groups to ensure that the issue of IT equity gets put on the agenda of senior policy makers and political leaders.

3. Urge international organisations and donor agencies to build IT equity more centrally into their loan and funding programmes and to put adequate resources behind them.

4. Be more aggressive in using new technologies explicitly to reduce social tensions and conflicts.

5. Influence scholars, analysts, and researchers to put the issue of IT equity higher on their research agendas.

6. Make analysts in industrialised nations, as individuals and groups, listen to and learn from colleagues around the world about the latter's unique concerns over access to technology.

Starting in August 2003, WITFOR should be organised every other year in cooperation with **IFIP** Members and local governments in developing countries. It should be rotated to different parts of the world. **IFIP** should hold its General Assembly immediately after WITFORs.

The DCSC and Executive Board will study and refine this ambitious proposal.

IFIP Digital Library Project

At the March **IFIP** Council meeting in Capri (see the article on page 1), **Prof. Klaus Brunnstein** (DE), a vice-president, presented an interim report on behalf of a three-person committee charged with investigating the feasibility of an **IFIP** Digital Library (DL), which would make available in electronic form various material. Possible alternatives are discussed below.

The **IFIP** DL project was initiated by the Executive Board (EB) following the 2000 General Assembly, at which the written report of the Publications Committee mentioned the topic and proposed that the EB take it up. Previously, during the March 2000 Council in Washington, DC, representatives of the ACM and the IEEE—CS had presented their embodiments of the DL concept to the attendees.

The mission of the present project is to investigate how IFIP should make "digital material" for which **IFIP** holds the copyright available to **IFIP** working bodies and Member societies for on-line access, and to suggest means of storing and providing access to such material.

What Material to Include

IFIP creates numerous technically and scientifically valuable works, which are at present essentially in printed form or on CD-ROMs. These include proceedings of congresses, conferences, and symposia as well as journals, newsletters, etc. These works have been published by various publishers, including North-Holland, Elsevier, Springer—

Continued on page 4

IFIP COUNCIL

Executive Board

P. Bollerslev	President DK 98-01
R. Aiken	Pres.-Elect US/ACM 00-01
W. Grafendorfer	Vice-President AT 99-02
T. Miura	Vice-President JP 00-03
K. Brunnstein	Vice-President DE 00-01
R. Reis	Vice-President BR 00-0I
R. Johnson	Secretary GB 99-02
D. Khakhar	Treasurer SE 99-02

Trustees

K. Boyanov	BG 00-03
G. Boynton	CA 99-02
Q. Wang	CN 99-0I
J.A.N. Lee	US/IEEE 00-03
R. Kurki-Suonio	Fl 00-03
S. Charmonman	TH 00-02
P. Ralston	AU 00-01

IFIP Congresses Past and Future

IFIP Congresses received a great deal of attention at the March Council in Capri (see the article about the Council on page 1). In addition, several I **FIP** Member societies have expressed interest in hosting future Congresses. (The site for Congress 2006 will be chosen by the 2002 General Assembly.) Here is the latest information about the Congresses.

Congress 2000 in Beijing

Mr. Zhou Mengqi (CN), vice-chair of the Organizing Committee (OC) of Congress 2000, reported to Council that China had benefited from having the Congress and that everyone was pleased, in general. He thanked all those who had helped the OC to make the Congress a success and apologized for any possible shortcomings, noting that this was the first time that the Chinese Institute of Electronics had organized such a large congress.

He reported the attendance statistics (see the table on page 6 of the March ***IFIP** Newsletter),* including the large number of students who had attended (346) and the number of countries from which the delegates had come (72).

President Bollerslev congratulates Mr. Zhou on a job well done.

The fmancial report showed total expenditures of $599 000 US ($599K), including $54K in donations used to reduce the registration fee for Chinese delegates, and a slim surplus of $7K. The OC had paid **IFIP** the agreed fee of $65K just two months after the Congress. **IFIP** had provided support to 43 participants from 16 developing countries.

With great humor, **Mr. Plamen Nedkov, IFIP** Executive Director, declared **Mr. Zhou** an Honorary Member of the Secretariat, because of the intensive interaction he, the main contact person between the OC and the Secretariat, had with IFIP. ❑

Congress 2002 in Montreal

The next Congress, the 17th World Computer Congress, will take place 25-30 August 2002 in Montreal. **Mr. Jan Wibe** (NO), chair of the International Program Committee (IPC), and **Mr. George Boynton** (CA), chair of the Organizing Committee, made several announcements:

- Some 1200-1400 delegates are expected. (Congress 2000 in Beijing attracted 1567 delegates, 57% of whom were from China.)
- The Congress is subtitled Information Technology for Our Times: Ideas, Research and Application in an Inclusive World.
- Nine of the twelve **IFIP** Technical Committees will be involved in organizing the nine streams of the Congress.
- There will be one plenary keynote session each day of the Congress.
- **Mr. Gordon Davies** (GB) has been appointed editor of the Congress proceedings. He said that the proceedings will be published in several volumes (divided according to the streams) by Kluwer Academic Publishers, the principal **IFIP** publisher. As was the case for the Congresses in Beijing and in Vienna and Budapest, each delegate will receive the printed volume containing the papers in the stream for which she or he has registered, as well as a CD-ROM containing all the papers from the Congress. There was some discussion about possibly publishing a book with the edited best papers of the Congress. Issues raised were how to select such papers and whether there would be a market for such a book. A request was made to **Mr. Davies** that the proceedings be made available on line in advance of the Congress, for access by all reg-

Continued on the following page

Congress 2004 in Jerusalem

The 18th Congress will be held 5-10 September 2004 in Jerusalem. Because of the present turmoil in the Middle East, the **IFIP** Technical Assembly discussed whether there was concern among members of the Technical Committees (TCs) about the possible physical danger in holding Congress 2004 in Jerusalem. The consensus was that this was not a significant issue. In fact, TC 1 on Foundations of Computer Science is pleased that the Congress will be in Israel because of the very active theoretical-computer-science community in Israel. (An entirely different concern of several TC chairs was that sponsoring a stream of an **IFIP** Congress every two years is too demanding upon the TCs involved.)

Mr. Moshe Gottlieb (IL), chair of the Congress Organizing Committee, said that by September 2004, it is expected that the present unrest will have ended. At any rate, the professional congress organizer planning the Congress can relocate it within Israel if need be.

Mr. Gottlieb also reported the following matters:

- The Congress dates had been changed to 5-10 September (including a day for tutorials).
- Sessions of benefit to start-up companies will be held.
- There will be tours to high-technology companies.

Prof. Robert Aiken (US), IFIP president-elect, announced the appointment of **Prof. Klaus Brunnstein** (DE), a vice-president, as chair of the International Program Committee.

National Abbreviations Used in Newsletter

AR	Argentina	DK	Denmark	KR	South Korea
AT	Austria	H	Finland	NL	The Netherlands
AU	Australia	FR	France	NO	Norway
BE	Belgium	GB	United Kingdom	PL	Poland
BG	Bulgaria	GR	Greece	PT	Portugal
BR	Brazil	HU	Hungary	SE	Sweden
CA	Canada	IE	Ireland	SK	Slovakia
CH	Switzerland	IL	Israel	TH	Thailand
CN	China	IR	Iran	US	USA
CZ	The Czech Republic	IT	Italy	ZA	South Africa
DE	Germany	JP	Japan		

Regional Meeting of Leaders of **IFIP** Member Societies Held in Slovenia

The following press release was issued by **IFIP** 18 April in Portoroz, Slovenia:

The **IFIP** president, **Mr. Peter Bollerslev** (DK), addressed the participants of the Annual Conference of **IFIP's** Slovenian Member society and talked about **IFIP's** activities, priorities and challenges. The Minister of the newly established Slovenian Ministry of Information Society, among the dignitaries present, described the role of the Ministry as having to "bulldoze" the path of the information society in Slovenia.

Greetings were delivered by representatives of **IFIP** Member societies from neighboring countries who earlier that day held a regional meeting in Portoroz to consider more intense contacts and cooperation. The Regional meeting, jointly chaired by the **IFIP** Executive Director, **Mr. Plamen Nedkov,** and the President of the Slovenian Society "Informatika," adopted the following statement:

MEETING OF REPRESENTATIVES OF THE COMPUTER SOCIETIES OF AUSTRIA, HUNGARY, ITALY AND SLOVENIA

Leaders of the computer societies of Austria, Hungary, Italy and Slovenia met today in Portoroz, Slovenia, to inform each other of their national IT priorities, activities and initiatives and to explore areas of common interest for future regional and international cooperation. The participating societies recognize **IFIP's** authority and potential to initiate important international activities and are grateful to **IFIP** for providing its auspices to the meeting and for its willingness to continue supporting the efforts of its Members in establishing closer regional links. The participants agreed to establish an IT STAnding Regional (IT STAR) committee to foster cooperation of the participating societies. Its function would be to assess the current contacts and to assist and monitor the development of bilateral and regional programs for scientific and technical cooperation. IT STAR membership shall consist of one representative of each participating society and **IFIP.** It will remain open for other societies from the region.

SIGNED—

For OCG, Austria: ***V. Risak,*** *Past President*

For NJSZT, Hungary: ***B. Domolki,*** *Honorary President*

For AICA, Italy: ***G. Occhini,*** *Board Member*

For 5.51, Slovenia: ***N. Schlamberger,*** *President*

Prof. Tom Kilburn (1921-2001)

We regret to announce the death, on 17 January, of **Prof. Tom Kilburn,** a co-inventor of the first stored-program electronic digital computer at the University of Manchester in 1948. Those who attended the March 1998 **IFIP** Council in Manchester may recall meeting him at the welcoming dinner.

Prof. Kilburn led the work on designing and building a Small Scale Experimental Machine, "The Baby," which tested the ability of the Williams tube, a cathode ray tube device, to read and write binary information. For the first time, a computer was built that could hold a user program in electronic storage and process it at electronic speeds. **Prof. Kilburn** wrote the first program for it, which was first executed 21 June 1948.

CONGRESS 2002 *cont. from prior page*

istrants, as it was for **IFIP** Congress '98.

There will be a youth program across the streams. The group planning this program is open for proposals. Please contact the chair, **Dr. Jane Prey** (US), at jcp8@cs.virginia.edu.

A Pioneer Day will be organized by **Prof. John Impagliazzo** (US), at john.impagliazzo@hofstra.edu.

The **IFIP** Technical Assembly requested :hat the deadline for the submission of papers be moved forward; however, the IPC as maintained the original deadline of 3

Tutorials and workshops will precede and Follow the regular Congress program. Proposals for these activities should be

wdu@unb.ca by 15 October.

The nine streams and their chairs are as Follows:

T Foundations in the Era of Network and Mobile Computing; chair: Nicola Santoro (CA), santoro@scs.carleton.ca

Software Architecture; chair: Christine Hofmeister (US), crh@eecs.lehigh.edu

TeIE-Learning; chair: Raymond Morel (CH), morel@uni2a.unige.ch

Communication Systems: The State of the Art; chair: Lyman Chapin (US), lyman@bbn.com

Information Systems: The e-Business Challenge; chair: Roland Traunmüller (AT), traunm@ifs.uni-linz.ac.at

Human Choice and Computers: Issues of Choice and Quality of Life in the Information Society; chair: Klaus Brunnstein (DE), brunnstein@informatik.uni-hamburg.de

Distributed and Parallel Embedded Systems; chair: Bemd Kleinjohann (DE), bernd@c-lab.de

Intelligent Information Processing; chair: Bernd Neumann (DE), neumann@informatik.uni-hamburg.de

Usability: Gaining a Competitive Edge; chair: Judy Hammond (AU), judy@it.uts.edu.au

Full information about the Congress, including instructions for submitting papers, a video, and the Call for Papers in pdf format, can be found on the Web at www.wcc2002.org. Questions and suggestions should be sent by e-mail to contact-wcc2002@cips.ca.

DIGITAL LIBRARY *cont. from page 2*

Verlag, Chapman & Hall, and the current principal **IFIP** publisher, Kluwer Academic Publishers. In addition, material produced by **IFIP** working bodies but not published by formal printing (e.g., in workshops) could be included in an **IFIP** DL.

Material printed recently is usually available in some digital form, although formatted in a variety of ways, whereas older material must be converted (e.g., by scanning) into digital form before storage in a DL. Conversion costs for the older material may be significant, if not prohibitive. Even conversion of the newer material is not trivial (equations and graphics pose special problems). It was suggested at the Council meeting that editors of **IFIP** publications now save the electronic versions of the publications until an **IFIP** DL is established, since publishers often discard the digital version after the work has been printed.

Consideration is also being given to making material other than **IFIP** material accessible via the **IFIP** DL. For example, technical material created by Member societies, including Affiliate Members, might be placed in the DL, or access to Members' DLs could be accessible via the **IFIP** DL.

IFIP workers (e.g., members of Working Groups and Technical Committees) would

have access to the DL. Beyond that, the DL could be made available to members of Member societies, or even anyone at all who wishes access. There would be a charge for access to the DL, and many possibilities exist regarding the fees or subscription charges.

Implementation of the DL

There are three possibilities for implementing the DL:

- in-house — created by **IFIP** volunteers and maintained either by volunteers or the Secretariat
- implemented as part of a Member society's existing DL or the DL of another entity, such as a publisher or university
- outsourcing by hiring an outside organization to implement it.

Prof. J.A.N. Lee (US/IEEE) spoke at the Council meeting about various DL activities in the US that might be relevant to the project. The IEEE–CS has agreements with other societies, which permit their members to access the IEEE–CS DL. Soon, ACM will have all its publications available through its DL, which was first proposed in the late 1980s. Early prototyping started in 1991 at the Virginia Polytechnic Institute and State University. ACM converted its publications production system to feed directly into the DL, and then undertook the expensive endeavor of digitizing all old publications. On a much grander scale is the US National SMETE (science, mathematics, engineering, and technology education) DL (NSDL), launched by the US National Science Foundation. Focused on education, this effort also acts as a portal to other SMET content and will include dozens of specialized portals to areas such as computing and information technology. In support of NSDL, Virginia Tech has offered access for noncommercial use to facilities, including a 2.5 terabyte parallel system. ($2.5 10^{12}$ bytes). **Prof. Lee** also pointed out that the IEEE–CS DL offers free access to material over five years old, and the ACM may eventually do similarly.

Economic Aspects

In order to support this activity, **IFIP** must receive income from the DL users. Many questions must be answered in this regard, including the effect it would have on the sale of **IFIP** books. The DL would affect both the income of the **IFIP** publishers and the royalties received by **IFIP.** Perhaps **IFIP** should absorb some of the cost, as a service to the scientific community.

The Council agreed "...that this project be continued, with the mission to prepare material which supports a decision by the **IFIP** General Assembly in August about the **IFIP DL.**"

IT PROFESSIONALISM CONFERENCE
continued from page 1

the world. The IT applications on which modern society depends are highly reliable, but the uncertainty with regard to the Y2K issue suggests that there are underlying uncertainties. Are the achievements because of or in spite of the IT professionals? How can we ensure that IT professionals adhere to the standards expected of older professions? How can we ensure that the world's needs for IT skills are met?

IT professionals have a unique ability to raise the standard of life for all our citizens. However, such gains can be assured only when the applications are designed, built, maintained and operated by IT professionals committed to the same high standards of skill and behaviour that our citizens have come to associate with the older professions.

IFIP, in common with many of the world's computer societies, has the objective of disseminating good practice amongst professionals to help deliver high-quality IT systems. With the radical changes being brought about by the Internet, it seems appropriate to examine a range of key issues relating to IT professionals, the IT industry and computer societies:

What are the key steps in a career in IT?

What education and training are needed?

How do we ensure there are sufficient trained personnel?

How should professional behaviour be regulated?

What is the role of the national computer society or international federation?

Many national societies around the world are already addressing these issues. However, the international nature of IT means that, while national answers are valuable, longer-term progress can be made only by international cooperation. Consequently, **IFIP** is inviting Member societies and regional groupings around the world to participate in a world conference on IT professionalism. In addition, **IFIP** will be seeking participation and support from international organisations such as OECD (Organisation for Economic Cooperation and Development) and UNESCO. It is proposed that the focus be clearly on the IT profession, and **IFIP** hopes that IT practitioners will be well represented, as well as educators and computer-society officers and staffs. [It was originally proposed, at the March Council, to hold regional conferences in the Americas, Europe, and Southeast Asia in 2001, before the world conference. — Editor]

There is a great deal of excellent work being carried out around the world on raising and maintaining professional standards in IT. However, much of this work is unknown outside its host society. The purpose of this conference is to develop a shared understanding of the issues and to provide the experience of addressing them and opportunities to work together in the future to address one of the key issues of our time.

IFIP intends to publish the results of the conference in order to promote better understanding of the issues. Furthermore, **IFIP** is keen to initiate programmes of work, in partnership with regional and national bodies, that address the joint challenges of meeting the IT skills needs and raising global IT standards of professionalism.

The conference is planned for June 2002. The British Computer Society has offered to act as the local host.

COUNCIL *continued from page 1*

- Details of **IFIP** Congresses 2000, 2002, and 2004 were discussed at great length, including the appointment of **Prof. Klaus Brunnstein** (DE) as chair of the International Program Committee for **IFIP** Congress 2004 (in Jerusalem). See the article on page 3.
- Initial thoughts on an **IFIP** "digital library" were aired by a task force organized last September. See page 2.
- The Executive Board reported on plans for conferences on professionalism among Information Technology practitioners. See page 1.
- A World Information Technology Forum was proposed — a global conference to be held every other year in a developing country. See page 2.
- The reports of the treasurer and Finance Committee indicated a very healthy financial state of the Federation.
- **Mr. Plamen Nedkov,** the IFIP–UNESCO Liaison Officer, described increased coop-

Continued on following page

COUNCIL *continued from preceding page*

eration between the two organizations. This was reported in articles on pages 1 and 15 of the March *Newsletter.*

- A meeting, held under the auspices of IFIP, of representatives of the computer societies of Austria, Hungary Italy, and Slovenia was reported. See page 4.

The Council was welcomed to Capri by **Prof. Frisiani** on behalf of the president of the AICA, **Prof. Bruno Fadini. Mr. Peter Bollerslev** (DK), **IFIP** president, thanked the hosts for the invitation to Capri and pointed out that the first **IFIP** Council had met in Rome in 1960.

Technical Activities

In 2000, 78 **IFIP** events were held, with **IFIP** the full or main sponsor of 2/3 of them. If one counts **IFIP** Congress 2000 as a single event, one finds the total number of events greater than the number for 1999 but significantly smaller than the number for 1998. The total number of participants in **IFIP** events is stable.

Little activity was reported by the Committee for Cooperation with Industry since the August 2000 General Assembly, despite an Executive Board meeting having been held in Tokyo to move this endeavor forward. Its Task Force on Entertainment Computing (see the article on page 15 of the March *Newsletter)* had nothing to report because of the difficulty in finding a chair.

Significant items reported by the Technical Committees (TCs) included the following:

• **Prof. Giorgio Ausiello** (IT) reported for TC 1 on Foundations of Computer Science that its newer Working Groups are very vigorous. The main problem of the TC is finding areas to work in that are not already covered by other bodies or TC2.

• TC2 on Software: Theory and Practice has established an annual award for young researchers. Named after the third chair of TC2, who is still the German representative, the **Manfred Paul** Award will carry an honorarium of 1024 (2^{10}) euros and be granted for excellence in software, based on publication(s) during the preceding two years.

• There had been problems in organizing the TC3 (Education) World Conference on Computers in Education, to be held 29 July — 3 August in Copenhagen. The Danish Member society of IFIP that had original proposed to organize the event withdrew its offer. Of the 323 papers submitted, hardly any came from the other Nordic countries. Many came from Australia, Japan, and Brazil. At the time of the Council meeting, however, the conference was in good shape.

• **Prof. Augusto Casaca** (PT) reported for TC6 on Communication Systems that its recent election of a new chair was done electronically. (A paper on the topic of electronic voting commissioned by the Executive Board will be presented to the GA in August.)

• **Prof. Bernard Glasson** (AU), chair of TC8 on Information Systems, reported that the TC is facing stiff competition from other associations. The IS field is flourishing outside of **IFIP,** and several organizations are drawing workers in the field away from the **IFIP** activities. It is difficult to attract participants to **IFIP** events. Of the seven TC8 Working Groups (WGs), two are strong, three are marginal, and two are weak. This is not a crisis situation, and solutions are being studied.

• TC9 on Relationship between Computers and Society celebrated its 25th anniversary in May 2001. The TC produced three books in 2000. The TC chair, **Prof. Jacques Berleur** (BE), has been invited by UNESCO for an experts' meeting to be held in the framework of the World Commission on the Ethics of Scientific Knowledge and Technology (COMEST), where a subcommittee has been created on the Ethics of the Information Society.

• **Mr. Nedkov** pointed out that TC12 on Artificial Intelligence held an event in India that demonstrated the good work being done by the TC.

• The 35% acceptance rate for the papers submitted to the TC 13 (Human—Computer Interaction) INTERACT 2001 conference reflects a rigorous review process and a large number of submissions.

Publications

Mr. Prins Ralston (AU), chair of the Publications Committee, reported that the year-2000 sales figures for **IFIP** books produced by Kluwer Academic Publishers, the principal **IFIP** publisher, were improvements over the numbers for 1999. Revenues were up 11%, royalties to IFIP were up 9%, and the number of books sold (7215) was up 14%. Twenty-three volumes were published in 2000 (24 were anticipated when publications were reported at the General Assembly in August, and 24 were printed in 1999). Twenty-five are expected in 2001 (not the 30 that had been hoped for last August). **Mr. Ralston** expressed satisfaction with the job done by Kluwer and said that the contract with Kluwer is good for **IFIP.** He also reported that the results were still inconclusive in the ongoing experiment on setting the price of an **IFIP** volume especially low to determine whether this would have a significant impact on sales

When reporting to the Council, **Mrs. Yana Lambert**, Kluwer's representative, indicated that she doesn't expect any increases in the price schedule for **IFIP** books in the near future. She also pointed out that Kluwer has yet to refuse to publish a volume that the publisher considers unlikely to be profitable, although the contract with **IFIP** permits it to do so. When the discussion of marketing **IFIP** books arose, she listed all the ways Kluwer markets IFIP books, including quarterly mailings to 7000 libraries around the world and brochures targeted to specialists. The bulk of **IFIP** sales are in Europe.

Mrs. Lambert called the attention of Council to the fact that a small number of the manuscripts submitted to the publisher look bad. Some papers are not edited and some are not in the standard format. When **Mrs. Lambert** noted that the fewest problems were experienced for the proceedings of TC8 on Information Systems, the TC chair said that TC8 pays professionals to do formatting.

Books not published by Kluwer because their TCs or organizers decided not to do so were discussed at the Council. At least eight such books were published in 2000 (over 25% of the volumes published). One reason for such decisions is that the price of Kluwer books is considered by some to be high. When organizations cooperating with **IFIP** in sponsoring an event can print the proceedings for far less than the Kluwer price, **IFIP** organizers occasionally decide to have the cooperating organizations print the proceedings (without the benefits of having a true publisher handle them).

Some organizers choose, in violation of the **IFIP** rules, to use other publishers. Springer-Verlag is the primary publisher of such non-Kluwer books. **IFIP** does receive some royalty payments from Springer. TC6 leads in sales totals of Kluwer books despite the fact that some of its books are published by Springer. TC chairs asked that efforts be made to publicize non-Kluwer books. It was not clear whether the publishers of these books make adequate efforts to publicize

them. TC chairs were requested to inform the IFIP Secretariat and the ***IFIP*** *Newsletter* editor when non-Kluwer **IFIP** books are published, in order that they be posted on the Web site and printed in the *Newsletter* (see the listing on page 8) and in order that e-mail notices about the books may be sent to Member societies.

Mrs. Lambert reported that the Kluwer-owned TC3 journal, *Education and Information Technologies*, has yet to meet its sales potential. At the current subscription level, it would hardly be worthwhile for Kluwer to continue to publish it. **Mrs. Lambert** urged greater **IFIP** support with regard to subscriptions.

Finances

The IFIP financial situation is stable and satisfactory according to our treasurer, **Prof. Dipak Khakhar** (SE), and Finance Committee chair, **Mr. José Granado** (PT). The surplus for 2000 was 133K EUR (133 000 euros), resulting in total assets of 2059K EUR at the end of last year. The surplus was significantly lower than the 1999 surplus, owing to excellent investment results in that year, but only moderately lower than surpluses of prior years. Expenses were higher and income lower. In 2000, the return on assets was actually a loss of 33K EUR. Income from royalties was up 17%. Proceeds from activities were up dramatically because of the income from **IFIP** Congress 2000. Event organizers are paying the amount they owe **IFIP.** The total income from dues is not acceptable because of the failure of some Members to pay; however, the dues payments from the two US Member societies help ameliorate the situation. Advance payment of dues added 53K EUR to the 2000 account but will have a negative effect on future accounts. Although improvement is being made in minimizing the amount of **IFIP** money in non-interest-bearing accounts or low-income accounts, 20-30K EUR is still lost annually because of failure to minimize the amount of cash in such accounts.

The 2001 budget includes a surplus of 47K EUR. Income significantly lower than for 2000 is expected for royalties and proceeds from activities, while income from investments is expected to be positive (ca. 5%).

Other financial matters include the following:

• Mr. Granado encouraged TCs to view the income into their funds from royalties and event proceeds as money that should be invested in new special activities.

• It was thought when the position of Event Facilitator was created that the individual would be helpful in marketing **IFIP** activities. This has not proved to be so. **Ms. Dorothy Hayden,** who fills that position, is very busy. The cost to hire an additional person to work half time in the Secretariat for marketing would be approximately 30K EUR per year.

• The 2000 income to **IFIP** generated by TCs was 255K EUR; the income from Member dues was 172K EUR.

Membership

Thirty-eight of the 44 Full Members of **IFIP** have full voting rights. The number of voting Members is steadily dwindling. The voting rights of Brazil, Greece, and Syria have been suspended since the beginning of the year because of back dues owed; the rights of Armenia were suspended the previous year. The Memberships of Albania and Russia would have terminated at the end of 1999 because of back debt; however **President Bollerslev** proposed to the 1999 GA "...a 'freeze' of their memberships until they pay back their accumulated debt. This will allow them to resume **IFIP** activities in the future without the turbulence of reapplying." The GA approved. In 1999, **President Bollerslev** said that Albania and Russia were searching for ways to pay their outstanding dues. No progress was reported to Council. The Executive Board has compiled a list of potential new Members.

Administrative Activities

Mr. Nedkov, in his role of **IFIP** Executive Director, reported on the Secretariat, pointing out how much two full-time employees and one halftime employee were able to accomplish. He did state, however, that there are limits to how much the Secretariat can do. As usual, the Secretariat was complimented on the high quality of its work. At this meeting, special attention was called to the excellent **IFIP** presence on the Web. On a light note, **Mr. Nedkov** described how popular the monthly jokes sent by the Secretariat via e-mail to GA representatives and others have become. He mentioned one GA representative's secretary, who receives his e-mail and rushes immediately to him to have the joke translated from English to their native language.

IFIP has three awards to its volunteers: the Isaac Auerbach Award (of which four have been given so far), the Silver Core Award (381 so far), and the Outstanding Service Award (71 so far). So many of the Silver Cores have been granted that its prestige has diminished. A variety of suggestions were made, including the establishment of Gold Core and Platinum Core Awards. The Marketing Committee was assigned the responsibility of recommending to the September General Assembly whether any changes should be made to the **IFIP** award structure.

Miscellaneous

The Brazilian representative, **Prof. Ricardo Reis**, informed the Council that the 2001 GA, which will be held in Natal, Brazil, hosted by the Brazilian Computer Society, will be preceded by a Brazilian conference, after which a three-day **IFIP** IT Conference will be organized from 30 August to 1 September. One day will comprise presentations from all TCs about the state of the art in their fields. **Prof. Reis** requested that 15-page reports be prepared by all TCs for distribution during the conference. A book containing these reports might be published later. On another day of the conference, the GA representatives are requested to prepare papers and give talks about the information society in their countries.

Prof. Armando Haeberer (AR), the new chair of TC2, had been invited to present a summary of the state of the TC, which is the oldest of the **IFIP** TCs, to the Technical Assembly. He noted the fierce independence of the Working Groups and how they jealously guard their freedom from their parent TC.

When noses were counted, it was determined that this was not a well attended Council. Although the entire Executive Board was present, three of the eight trustees and four of the twelve Technical Committee members were absent. Attendance at the Technical Assembly (TA) was sparse: only five of the eight Executive Board members and seven of the twelve TC chairs were present (three and five, respectively toward the end).

The hospitality provided by the AICA was greatly appreciated. It included a cocktail party, preceded by Italian music performed by an excellent duo comprising a contralto and a guitarist, and a festive dinner party. Council's gratitude for excellent organization and cordial attention was expressed by **Mr. Bollerslev** as he adjourned the Council on the final day. ❑

Calls for Papers

Intl.Confs.on **Info-tech & Info-net - ICII2001**
29 October - 1 November, Beijing, China
papers due: 31 July 2001
contact: Prof. Yi X. Zhong
University of Posts & Telecom (BUPT)
Beijing 100876, China
tel: (8610) 62282023
fax: (8610) 62285008
e-mail: yxzhong@ieee.org
http://www.bupt.edu.cn/~icii

IFIP WG9.4 Conf. on ICTs and Development: New Opportunities, Perspectives & Challenges
29-31 May 2002, Bangalore, India
papers due: 31 August 2001
contact: http://is.lse.ac.uk/ifipwg94/Conference2002/firstcall.htm

Fourteenth **IFIP** TC6/WG6.1 Intl. Conf. on **Testing of Communicating Systems - TestCom**
19-22 March, 2002, Berlin, Germany
papers due 8 September 2001
contact: http://www.fokus.gmd.de/events/testcom2002

IFIP Congress 2002, the seventeenth **World Computer Congress**
25-30 Aug 2002, Montreal, Canada
papers due 3 Dec 2001
contact: Mr. Jan Wibe
e-mail: jan.wibe@seu.allforsk.ntnu.no

Will event organizers please send calls for papers to both the **IFIP** Secretariat and the *Newsletter* editor. Note that calls cannot be listed in this column until the events have been approved by **IFIP.**

New **IFIP** Books

The following **IFIP** books have been published since April:

Architecture and Design of Distributed Embedded Systems, edited by B. Kleinjohann (DE), Kluwer Academic Publishers, Hardbound, ISBN 0-7923-7345-6, April 2001, 248 pp., EUR 165.00

New Trends in Optical Network Design and Modeling, edited by Alexandros A. Stavdas (GR), Kluwer Academic Publishers, Hardbound, ISBN 0-7923-7355-3, April 2001, 296 pp., EUR 149.00

Global Engineering, Manufacturing, and Enterprise Networks, edited by John P.T. Mo (AU), Laszlo Nemes (AU), Hardbound, ISBN 0-7923-7358-8, April 2001, 512 pp., EUR 230.00

Communications and Multimedia Security Issues of the New Century, edited by Ralf Steinmetz (DE), Jana Dittmann (DE), Martin Steinbach (DE), Kluwer Academic Publishers, Hardbound, ISBN 0-7923-7365-0, April 2001, 440 pp., EUR 202.00

Trusted Information: the New Decade Challenge, edited by Michel Dupuy (FR), Hardbound, ISBN 0-7923-7389-8, May 2001, 504 pp., EUR 201.00

Realigning Research and Practice in Information Systems Development: The Social and Organizational Perspective, edited by Nancy L. Russo (US), Brian Fitzgerald (IE), Janice I. DeGross (US), Hardbound, ISBN 0-7923-7420-7, July 2001, EUR 192.00

Technical Committee chairs are reminded to send information about non-Kluwer **IFIP** books to the Secretariat and the *Newsletter* editor.

FUTURE **IFIP** MEETINGS

GENERAL ASSEMBLY AND COUNCIL (and related meetings)

GA	2-6 Sep 2001 (Sun-Thu)	Natal, Brazil
Council	3-7 Mar 2002 (Sun-Thu)	Bled, Slovenia
GA	30 Aug - 3 Sep 2002 (Fri-Tue)	Montreal, QU, Canada
Council	2-6 Mar 2003 (Sun-Thu)	Portugal
GA	31 Aug - 4 Sep 2003 (Sun-Thu)	Bilbao, Spain
GA	11-15 Sep 2004 (Sat-Wed)	Jerusalem, Israel

TECHNICAL COMMITTEE AND WORKING GROUP MEETINGS

TC 1	Jul 2001	Crete, Greece
WG 1.2	Jul 2001	Vienna, Austria
WG1.4	Jul 2001	Amsterdam, the Netherlands
TC2	1-2 Jun 2001	San Miniato, Italy
WG2.1	10-14 Sep 2001	Ameland, the Netherlands
	Jun 2002	Dagstuhl, Germany (tentative)
	Mar 2003	Stony Brook, NY, US (tentative)
WG2.4	1-2 Jun 2001	San Miniato, Italy
	Apr 2002	Cape Town, South Africa
WG2.5	2002	Portland, OR, or Washington. DC, US
	2003	Austria
TC3	28 Jul 2001	Copenhagen, Denmark
	15-16 Feb 2002	France
WG3.1	30 Jul 2001	Copenhagen, Denmark
	2002	Dortmund, Germany
WG3.2	29 Jul 2001	Copenhagen, Denmark
	8 Aug 2002	Florianopolis, Brazil
	2003	Sydney, Australia
WG3.3	30 Jul 2001	Copenhagen, Denmark
	2003	Finland
WG3.4	29 Jul 2001	Copenhagen, Denmark
	2003	Finland
WG3.5	2 Aug 2001	Copenhagen, Denmark
	Jul 2002	France
WG3.6	1 Aug 2001	Copenhagen, Denmark
	Aug 2002	Montreal, QU, Canada
WG3.7	3 Aug 2001	Copenhagen, Denmark
	Jul 2002	Helsinki, Finland
TC5	15 Jun 2001	Geneva, Switzerland
	Oct 2001	Budapest, Hungary
WG5.7	26 Aug 2001	Aalborg, Denmark
WG5.10	28 Sep 2001	Geneva, Switzerland
TC6	6-7 Oct 2001	Zurich, Switzerland
WG6.7	,5 Sep 2001	Espoo, Finland
WG6.8	9 Aug 2001	Lappeenranta, Finland
TC7	23-27 Jul 2001	Trier, Germany
WG7.4	23-27 Jul 2001	Trier, Germany
TC8	20-22 Jun 2001	Salzburg, Austria
	23-24 Aug 2002	Montreal, Canada
WG8.2	Jul 2001	Boise, ID, USA
	Dec 2002	Barcelona, Spain
WG8.4	Jul 2001 (tentative)	Salzburg, Austria
TC9	24-25 Aug 2002 (tentative)	Montreal, QU, Canada
WG9.1	16 Sep 2001	Bonn, Germany
SIG9.1.1	Oct 2001 (?)	Bremen, Germany (?)
WG9.2	7-8 Jul 2001	Linkoping, Sweden
	19-20 Jan 2002	Namur, Belgium
	Jan 2003	Namur, Belgium
WG9.3	Apr 2002	US
WG9.4	29-31 May 2002	Bangalore, India
WG9.5	Oct 2001	Bremen, Germany
WG9.6	17 June 2001	Bratislava, Slovakia
TCl0	10 Sep 2001	Brasilia, Brazil
WG 10.4	4-8 Jul 2001	Stenungsunds Baden, Sweden
	20-24 Jan 2002	Saint Johns, Virgin Islands, US
	26-30 Jun 2002	North Carolina, US
WG10.5	10-15 Sep 2001	Brasilia, Brazil
	3-5 Dec 2001	Montpellier, France
TC11	10 Jun 2001	Paris, France
WG11.5	15 Nov 2001 (in conjunction with conf.)	Brussels, Belgium
TC12	7-9 Aug 2001	Seattle, WA, US
TC13	8 Jul 2001	Tokyo, Japan
WG13.5	14 Jun 2001	Glasgow, UK

This information is furnished to the *Newsletter* by the Secretariat. Will TC and WG chairs kindly keep the Secretariat advised of the dates and locations of their future administrative meetings and also send a copy of the minutes to the Secretariat.

Some meetings are scheduled in conjunction with Working Conferences, for which the conference dates are listed.

Published by KLUWER ACADEMIC PUBLISHERS on behalf of the International Federation for Information Processing

Realigning Research and Practice in Information Systems Development

The Social and Organizational Perspective

edited by **Nancy L. Russo,** *No. Illinois University, DeKalb,USA*
Brian Fitzgerald, *National University of Ireland-Cork, Ireland*
Janice I. DeGross, *University of Minnesota, USA*

TC 8

The design and development of IS and IT are critical issues of concern. New research topics continuously emerge in tandem with the latest developments in technology. However, the enduring core issue remains as to how to develop systems to fully exploit these new areas. Both information systems and information technology are interpreted fairly broadly in this book. Of particular interest are research studies that facilitate an understanding of the role and impact of information technology on society, organizations, and individuals, and which strive to improve the design and use of information systems in that context.

Categorized into four broad themes, first is the core issue of developing information systems in the current environment. Several fundamental challenges to current assumptions and conventional wisdom in information systems development are posed. The second section considers the management of information systems. Again, the conventional wisdom is challenged. The penultimate section focuses on researching information systems. Various issues to do with research methods are surfaced, and the use of leading-edge research methods in information systems development is pioneered and discussed. Finally, a section is devoted to understanding information systems. This section addresses the perennial challenge in the IS field in relation to the conceptual foundations of the field.

This volume comprises the proceedings of the Working Conference on Realigning Research and Practice in Information Systems Development: The Social and Organizational Perspective, sponsored by the International Federation for Information Processing held in Boise, Idaho, USA, July 2001.

Hardbound, ISBN 0-7923-7420-7 July 2001, 496 pp.
EUR 192.00 / USD 175.00 / GBP 122.00

New Trends in Optical Network Design and Modeling

edited by **Alexandros A. Stavdas,**
National Technical University of Athens,Greece

TC 6

Optical network design and modeling is an essential issue for planning and operating networks for the next century. The main issues in optical networking are being widely investigated, not only for WDM networks but also for optical TDM and optical packet switching. This book contributes to further progress in optical network architectures, design, operation and management and covers in detail: Optical switching and Teabit networking; Future OTDM and packet switched networks; WDM ring networks; Optical interworking and 'packets over wavelength'; Hybrid and switchless networks; Medium access protocols for optical LANs and MANs.

This book contains the selected proceedings of the Fourth International Working Conference on Optical Network Design and Modeling, sponsored by the International Federation for Information Processing in February 2000, in Athens, Greece.

Hardbound, ISBN 0-7923-7355-3 April 2001, 296 pp.
EUR 149.00 / USD 135.00 / GBP 95.00

Trusted Information

The New Decade Challenge

TC 11

edited by **Michel Dupuy,**
SGDN/DCSSI/CERTA, Paris, France
Pierre Paradinas,
Gemplus Labs, Gemenos, France

With the explosive growth of data exchange and the availability of access to services over the Web, the Trusted Information requirement is more and more an issue to providers and users of these services. This volume addresses this security issue and is divided into eleven parts that cover the essentials of information security technologies. Included are the following application-related topics and issues relating to application development and deployment: Security Protocols; Smart Card; Network Security and Intrusion Detection; Trusted Platforms; eSociety; TTP Management and PKI; Secure Workflow Environment; Secure Group Communications; Risk Management; Security Policies; Trusted System Design and Management.

This book comprises the proceedings of the 16th International Conference on Information Security (Sec'01), sponsored by the International Federation for Information Processing and organized by IFIP Technical Committee 11, held in June 2001 in Paris, France.

Hardbound, ISBN 0-7923-7389-8 May 2001, 504 pp.
EUR 201.00 / USD 175.00 / GBP 123.00

Formal Techniques for Networked and Distributed Systems

TC 6

edited by **Myungchul Kim**
Information & Communications University, Taejon, Korea
Byoungmoon Chin
Telecommunications Technology Association, Seoul, Korea
Sungwon Kang, *Korea Telecom, Taejon, Korea*
Danhyung Lee, *Korea IT Industry Promotion Agency, Seoul, Korea*

This book presents the latest worldwide results in theory and practice of formal techniques for networked and distributed systems. The theme of the book is addressed by specialized papers in the following areas: Formal Methods in Software Development; Process Algebra; Timed Automata; Theories and Applications of Verification; Distributed Systems Testing; and Test Sequence Derivation. The last part of the book contains special contributions by leading researchers in the above areas to add breadth and give more perspectives to the results.

This volume contains the selected proceedings of the International Conference on Formal Techniques for Networked and Distributed Systems (FORTE 2001), which was sponsored by the International Federation for Information Processing and held in Cheju Island, Korea in August 2001. FORTE 2001 combines two prestigious conferences, FORTE (Formal Description Techniques for Distributed Systems and Communication Protocols) and PSTV (Protocol Specification Testing and Verification), and has more than 20 years of history.

Hardbound, ISBN 0-7923-7470-3 July 2001, 472 pp.
EUR 185.00 / USD 170.00 / GBP 117.00

30% Discount available to members of IFIP Member Societies!

Published by KLUWER ACADEMIC PUBLISHERS on behalf of the International Federation for Information Processing

Global Engineering, Manufacturing and Enterprise Networks

TC 5

edited by **John P.T. Mo** and **Laszlo Nemes,** *CSIRO/Commonwealth Scientific & Industrial Research Organization, Vict., Australia*

This state-of-the-art text is a collection of the effort of experts in the modelling, design and development of information infrastructures for global enterprises and networks working together in an active forum. The problems in establishing and managing the dynamics of inter- and intra-enterprises in the present day fast-changing global operating manufacturing scenario requires universal applicability of enterprise integration architectures, methodologies and information infrastructure support. New requirements are emerging due to advancements in information and telecommunication technologies. In particular, the capability of information infrastructure and intelligent manufacturing systems to capture and transform information in globally distributed enterprise networks into knowledge for decision and action by machine and skilful people is becoming increasingly important for the success of virtual enterprises. These issues are thoroughly discussed under the fields of: Virtual enterprises; Modelling and analysis of virtual enterprises; Supply chain management; e-Commerce and e-Service; Product development and life cycle management; Knowledge management; Information technologies for manufacturing, and; Computer integrated manufacturing.

This valuable new book is essential reading and reference for researchers, engineers and managers at all levels; it also serves as a comprehensive text on enterprise integration, modelling methodologies and applications of information and telecommunication technologies.

Hardbound, ISBN 0-7923-7358-8 April 2001, 512 pp.
EUR 230.00 / USD 200.00 / GBP 140.00

Communications and Multimedia Security Issues of the New Century

TC 6

edited by **Ralf Steinmetz,** *Industrial Process and System Communications, Darmstadt University of Technology, Germany*
Jana Dittmann, Martin Steinebach
German National Research Ctr. for Info Tech, Darmstadt, Germany

This book presents a state-of-the-art review of current perspectives on communications and multimedia security. It examines requirements, issues, and solutions pertinent to securing information networks according to a multi-disciplinary approach covering research aspects, legal aspects, and applications. A wide spectrum of topics are discussed: Web security; Watermarking; Cryptographic algorithms; System security; Mobile security; and Secure key protocols.

This volume contains papers presented at the fifth Joint Working Conference on Communications and Multimedia Security (CMS'01), sponsored by the International Federation for Information Processing, May 21–22, 2001, in Darmstadt, Germany. It is essential reading for information security specialists, computer professionals, communication systems professionals, EDP managers and auditors, and researchers in the area.

Hardbound, ISBN 0-7923-7365-0 April 2001, 440 pp.
EUR 202.00 / USD 175.00 / GBP 122.00

Deformable Avatars

TC 5

edited by **Nadia Magnenat-Thalmann**
University of Geneva/MIRALab, Switzerland
Daniel Thalmann
Lausanne Swiss Federal Institute of Technology, Switzerland

With the increasing success of Networked Virtual Environments, Games and Web 3D, there is a need for new techniques to permit the creation and animation of Virtual Humans. Users may be represented by realistic avatars that they can control, but also autonomous Virtual Humans agents can now inhabit these Virtual Worlds. Virtual Humans with their soft tissues, skin, muscles, organs and clothes are completely deformable. There are many methods to enable the representation and deformation of these structures. These methods may be geometric or physics-based. Presenting a selection of the latest research work addressing various aspects related to deformable avatars, this book covers complementary topics such as body modelling and animation, face modelling and animation, physics-based and free-form deformations, motion capture, avatars technologies and agents.

This volume is comprised of the combined proceedings of the DEFORM'2000 and AVATARS'2000 workshops, sponsored by the International Federation for Information Processing and organized by IFIP Working Group 5.10. The workshops were held in Geneva and Lausanne, Switzerland in November/December 2000.

Hardbound, ISBN 0-7923-7446-0 July 2001, 264 pp.
EUR 169.00 / USD 155.00 / GBP 107.00

Architecture and Design of Distributed Embedded Systems

TC 10

edited by **Bernd Kleinjohann,**
Universität Paderborn, Germany

Due to the decreasing production costs of IT systems, applications that had to be realised as expensive PCBs formerly, can now be realised as a system-on-chip. Low cost broadband communication media for wide area communication as well as for the realisation of local distributed systems are available. Typically the market requires IT systems that realise a set of specific features for the end user in a given environment, so called embedded systems. For the design of embedded systems the designer has to tackle three major aspects: The application itself including the man-machine interface; The (target) architecture of the system including all functional and non-functional constraints; and, the design methodology including modelling, specification, synthesis, test and validation. The last two points are a major focus of this book.

This book documents the high quality approaches and results that were presented at the International Workshop on Distributed and Parallel Embedded Systems (DIPES 2000), sponsored by the International Federation for Information Processing, and organised by IFIP working groups WG10.3, WG10.4 and WG10.5. The workshop took place on October 18-19, 2000, in Schloß Eringerfeld near Paderborn, Germany.

Hardbound, ISBN 0-7923-7345-6 April 2001, 248 pp.
EUR 165.00 / USD 150.00 / GBP 105.00

30% discount available to members of IFIP Member Societies!

New Toll Free number - 1 866 269-9527 (US & Canada only) *Order today!*

Fax: +1 (781) 681-9045 **Phone:** +1(781) 871-6600 **E-mail:** kluwer@wkap.com

Mail to:
Kluwer Academic Publishers
Order Dept., P.O. Box 358,
Accord Station, Hingham, MA
02018-0358 USA

Calendar of Events

(continued from page 12)

Event	Date	Location	Sponsored by	Org. Contact
13th Symp.on Comp. Arch.& High Performance Comp.	10-15.9.2001	Brasilia, BR	BCS, IFIP WG10.3	albamm@cic.unb.br, http://www.cptec.inpe.br/~sbac2001/
Intl. Work.Conf. on Distributed Applications and Interoperable Systems	17-19.9.2001	Krakow, PL	IFIP WG6.1	al@cs.agh.edu.pl, http://www.cs.agh.edu.pl/DAISOI, Fax: +48 12 6173966
8th IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design and Evaluation of Human-Machine Systems	18-20.9.2001	Kassel, DE	IFAC, IFIP TC13	rosenzweig@vdi.de, http://www.imat.maschinenbau.uni-kassel.de/hms2001/index.html, Fax: +49 211 6214161
Symposium on Inf. Control Problems in Mania. Techn.	20-22.9.2001	Vienna, AT	IFAC, IFIP TC5	incom@ihrt.tuwien.ac.at, Fax: +43 I 58801 31899
8th Work.Conf.on Information Security Management & Small System Security	27-28.9.2001	Las Vegas, US	IFIP WG11.1/11.2, Univ.of Nevada, Las Vegas	rossouw@ml.petech.ac.za, Fax: +27 41 5043313
The Challenge of Technological Development	27-29.9.2001	Vienna, AT	IFIP TC9	kopacek@ihrt.tuwien.ac.at, Fax: +43 I 58801 31899
3rd Intl.Work.Conflon Active Networks	30.9.-2.10.2001	Philadelphia, PA, US	IFIP WG6.7, Univ.of Penn.	jms@central.cis.upenn.edu, http://www.cis.upenn.edu/iwan, Fax: +1 2158988190
1st IFIP Conlon e-Commerce, e-Business, e-Government	4-5.10.2001	Zurich, CH	IFIP TC6/8/I 1	baukn@ifi.unizh.ch, http://www.ifi.unizh.ch/I3E-conference
12th IFIP/IEEE Intl.Workshop on Distributed Systems: Operations & Management	15-17.10.2001	Nancy, FR	IFIP WG6.6, IEEE CNOM	olivier.festor@loria.fr, http://www.dsom2001.org, Fax: +33 383413079
4th IFIP/IEEE Intl.Conf.on Management of Multimedia Networks and Services	29.10.-I .11.2001	Chicago, IL, US	IFIP WG6.2, IEEE, DePaul Univ.	ehab@cs.depaul.edu, http://www.mnlab.cs.depaul.edu/mmns2001/, Fax: +1 312 3626116
3rd Intl.Conf.on Info-Tech & Info-Net	29.10.-1.11.2001	Beijing, CN	IFIP, IEEE	mqzhou@public.bta.net.cn, http://www.cie-china.org/ICII2001/
11th Intl. IFIP TC5 Conf. PROLAMAT	7-10.11.2001	Budapest, HU	IFIP WG5.2/5.3, EU, ERCIM	gkovacs@sztaki.hu, http://www.sztaki.hu/conferences/prolamat
4th Intl.Work.Conf.on Integrity and Internal Control in Information Systems	15-16.11.2001	Brussels, BE	IFIP WG11.5	strous@iaehv.nl, Fax: +31 492 548636, http://www.ifip.tu-graz.ac.at/TC11/CONF/IICIS2001
1st Intl. IFIP TC11/WG11.4 Work.Conf.on Network Security	26-27.11.2001	Leuven, BE	IFIP WG 11.4, NatI.Research Network, Natl.Science Found.	bart.dedecker@cs.kuleuven.ac.be, Fax: +32 16 327996, http://www.cs.kuleuven.ac.be/conference/inetsec01/
Intl.Conf.on Accel. and Large Exp. Physics Control Syst.	27-30.11.2001	San Jose, CA, US	IFIP TC5	rusty@slac.stanford.edu, http://icalepcs2001.slac.stanford.cdu
Intl. Conf. on Very Large Scale Integration - The Global System on Chip Design & CAD Conference	3-5.12.2001	Montpellier, FR	IFIP WG10.5	michel.robert@lirmm.fr, http://www.lirmm.fr/—w3micNLSI-SOC/, Fax: +33 467 418500
IFIP/IIASA Workshop on Dynamic Stochastic Optimization	11-14.3.2002	Laxenburg, AT	IFIP WG7.7, UniBw Munich	kurt.marti@unibw-muenchen.de, http://www.unibw-muenchen.de/campus/LRT/LRTI/frame/professurl/WS_2/workshop.htm
14th Intl.Conf.on Testing of Communicating Systems	19-22.3.2002	Berlin, DE	IFIP WG6.1, GMD Fokus, BTU Cottbus	schieferdecker@fokus.gmd.de, http://www.fokus.gmd.de/events/testcom2002, Fax: +49 3034638241
Work.Conf.on Formal Methods for Open Object-Based Distributed	20-22.3.2002	Enschede, NL	IFIP WG6.1	rensink@cs.utwente.nl, http://trese.cs.utwente.nl/fmoods2002
Networking 2002	21-23.5.2002	Pisa, IT	IFIP WG6.2/3/8, CNR	enrico.gregori@cnuce.cnr.it, http://www.cnuce.pi.cnr.it/Networking2002
IFIP WG9.4 Work.Conf.on ICTs and Socio-economic Development: Balancing global and local priorities	29-31.5.2002	Bangalore, IN	IFIP WG9.4	[illegible] Fax: +91 80 6584050,
IFIP WG3.2 Work.Conf.on Informatics Curricula, Teaching Methods and Best Practice	7-9.8.2002	Florianopolis, BR	IFIP WG3.2, SBC	raul@inf.ufsc.br, http://www.inf.ufsc.br/ifip2002/, Fax: +55 48 3319770
IFIP Congress 2002 - 17th World Computer Congress	25-30.8.2002	Montreal, CA	IFIP	contact-wcc2002@cips.ca, http://www.wcc2002.org, Fax: +1 416 368 9972
Conf. on E-Training Practices for Professional Org.	14-18.7.2003	Pori, Fl	IFIP WG3.3/3.4	multisil@pori.tut.fi, http://www.pori.tut.fi/etrain/, Fax: +358 39 6272727

This calendar information is furnished to the *Newsletter* by the Secretariat. It contains only approved IFIP events, arranged by the local Organizing Committees. For new entries on IFIP events please refer to the regularly updated electronic calendar at http://www.ifip.or.at/cal_even.htm . IFIP does not assume any financial or legal liability. A schedule of IFIP administrative meetings can be found elsewhere in this *Newsletter.*

Calendar of Events

Event	Date	Location	Sponsored by	Org. Contact
Intl. Workshop on Quality of Service	6-8.6.2001	Karlsruhe, DE	IFIP WG6.1, Univ.of Karlsruhe	lars.wolf@uni-karlsruhe.de, http://www.uni-karlsruhe.de/
16th Intl. Information Security Conference	11-13.6.2001	Paris, FR	IFIP TC11, SEE CLUB 63	congres@see.asso.fr, Fax: +33 I 44496049 http://www.ifip.tu-graz.ac.at/TC11/SEC2001
Feature Modelling and Advanced CAD-for-the-life-cycle-systems	12-14.6.2001	Valenciennes, FR	IFIP WG5.2/5.3, IFAC, IEEE, CIRP	feats2001@univ-valenciennes.fr, Fax: +33 3 27141288 http://www.univ-valenciennes.fr/LGIL/FEATS2001/
Work.Confon Security and Control of IT in Society - II	15-16.6.2001	Bratislava, SK	IFIP WG9.6/11.7	fischer@informatik.uni-hamburg.de, http://www.conference.sk/ifip/ Fax: +46 54 7001446
Work.Confon Multi-disciplinary Research in E-Commerce/E-Business	22-23.6.2001	Salzburg, AT	IFIP TC8	sreich@salzburgresearch.at, http://www.salzburgresearch.at/suntrec/IFIPTC8Conference/
9th IFIP Work.Confon Performance Modelling and Evaluation of ATM & IP Networks	27-29.6.2001	Budapest, HU	IFIP WG6.3/6.4, IEEE & Ericsson Hungary	henk@ttt.bme.hu, http://www.diamond-congress.hu, Fax: +36 1 2012680
Intl.Confon Dependable Systems & Networks	1-4.7.2001	Goteborg, SE	IEEE, IFIP WG10.4	torin@ce.chalmers.se, http://www.dsn.org, Fax: +46 31 7723663
5th Work.Confon Electronic Publishing	5-7.7.2001	Canterbury, GB	IFIP WG6.11, ICCC	j.w.t.smith@ukc.ac.uk, http://www.tu-chemnitz.de/pm/elpub2001, Fax: +44 1227823984
Workshop on Usability throughout the entire software development process	9-10.7.2001	Tokyo, JP	IFIP WG13.2	jg@hci.uu.se, http://www.hci.uu.se/Hg/UCD2001, Fax: +46 18 4717811
Workshop on Developing Education Material for HCI	9-10.7.2001	Tokyo, JP	IFIP WGI3.1	larsoe@dis.uu.se, Fax: +46 18521270
Intl.Confon Human-Computer Interaction - INTERACT 2001	9-13.7.2001	Tokyo, JP	IFIPTC13	interact2001@eie.eng.osaka-u.ac.jp , http://www.interact200 I .com, Fax: +81 3 5489 7472
2nd World Conlon Information Security Education	12-14.7.2001	Perth, AU	IFIP WG11.8, E.Cowan Univ.	h.armstrong@ecu.edu.au , http://www.scis.cowan.edu.au/research/wise, Fax: +61 893706100
15th WG11.3 Work.Confon Database Security	15-18.7.2001	Niagara on the Lake, CA	IFIP WG 11.3	sylvia@csd.uwo.ca, Fax: +1 519 6613515
IFIP WG8.1 Work.Confon Organizational Semiotics: Evolving a Science of Information Systems	23-25.7.2001	Montreal, CA	IFIP WG8.1	elsayed@vax2.concordia.ca, Fax: +1 514 848 2824 http://www.soc.staffs.ac.uk/research/groups/IFIP2001/call.html
20th IFIP TC7 Conf. on System Modelling and Optimization	23-27.7.2001	Trier, DE	IFIP TC7, University Trier	sachs@uni-trier.de, http://ifip200l.uni-trier.de/, Fax: +49 651 201 3973
Work.Confon Realigning Research & Practice in Inf. Systems Dev .: The Social and Organizational Perspective	27-29.7.2001	Boise, ID, US	IFIP WG8.2, Boise State Univ., Northern Illinois Univ.	riswojt2@cobfac.BoiseState.edu, http://afis.ucc.ie/ifip2001, Fax: +1 208 426 3779
7th IFIP World Computer Conf. on Computers in Edu.	29.7.-3.8.2001	Copenhagen, DK	IFIP TC3	wcce2001@uni-c.dk, http://www.wcce2001.dk, Fax: +45 35824076
Personal Wireless Conference 2001	8-10.8.2001	Lappeenranta, Fl	IFIP WG6.8	http://www.kareltek.fi/sem/pwc2001/cfp.htm, Fax: +358 5 6212899
IFIP TC6 WG6.I Joint Intl.Confon Formal Description Techn. for Dist.Syst.& Comm.Protocols (FORTE) & Protocol Specification, Testing & Verification (PSTV)	28-31.8.2001	Cheju Isl., KR	IFIP TC6, Korean Science Found., ETRI	mckim@icu.ac.kr, http://nalab.icu.ac.kr/fortepstv2001/, Fax: +82 42 8666154
Intl.Symposium on Telecommunications	1-3.9.2001	Tehran, IR	IFIP TC6, Alcatel, Ericsson, Siemens	marvasti@itrc.ac.ir, http://www.itrc.ac.ir/ist2001/, Fax: +9821 8009885
Forum on Design Languages	3-7.9.2001	Lyon, FR	IFIP WG10.5	anne.mignotte@insa-lyon.fr, http://www.ecsi.org/ecsi/fdl/fdl.html
11th Advanced Research Work.Confon Correct Hardware Design & Verification Methods	4-7.9.2001	Livingston/Edinburgh, GB	IFIP WG10.5, Inst.f.Syst-Level Integr.	tfm@dcs.gla.ac.uk, Fax: +44 141 3304913 http://www.dcs.gla.ac.uk/CHARME2001
IHM-HCI 2001	10-14.9.2001	Lille, FR	IFIP TC13	pdg@dcs.gla.ac.uk, Fax: +44 141 3304913
Symp.on Integrated Circuits and System Design	10-15.9.2001	Brasilia, BR	IFIP WG10.5, IFIP, SBMicro	rjacobi@cic.unb.br, http://www.sbc.org/sbcci, Fax: +55 61 2733589

(continued on page 11)