

Announcements

12-15 APRIL 1988

Second Eurographics Workshop on Intelligent CAD Systems – Implementational Issues – Koningshof, Veldhoven (near Eindhoven), The Netherlands.

Aim and scope

This is the second workshop of a series of three Eurographics workshops on Intelligent CAD Systems which have the following main topics:

- 1 1987 Theoretical and methodological aspects.
- 2 1988 Implementational issues.
- 3 1989 Practical experience and evaluation.

Since applying knowledge engineering to CAD systems seems a very promising way to solve the problems of conventional CAD systems, it has drawn attention not only from CAD researchers but also from AI researchers. The first workshop, which was held on 21-24 April, 1987, in the Netherlands, aimed at discussing the results and problems in this highly interesting field. We have realized that *ad hoc* approaches will eventually result in increased complexity of CAD applications and that we need a robust theoretical basis for development.

This second workshop in 1988 is planned to discuss implementation issues and to clarify problems associated with developing intelligent CAD systems based on those theoretical and methodological considerations. The scope of the workshop includes, but is not limited to, the following.

- The role of theories in implementing intelligent CAD systems
- Implementation of theories for intelligent CAD systems
- Architecture of intelligent CAD systems
- Techniques and tools to implement intelligent CAD systems
- Acquisition and maintenance of design knowledge
- Innovative and large-scale implementations of intelligent CAD systems
- Problems and future tasks in implementations of intelligent CAD systems

We are especially interested in reports telling how theoretical work influenced implementations.

Schedule for the second workshop

1 November 1987 Deadline for extended abstracts and position papers.

January 1988 Notification of acceptance for presentation and participation.

12-15 April 1988 Workshop (full papers are submitted just before the workshop).

May 1988 Deadline for final manuscripts to be included in the Eurographics Seminar Series.

Series schedule

Approximately 15 reviewed papers will be presented in this second workshop. Participants will be limited to about 50 based on invitation. Intended authors and participants are invited to submit extended abstracts or

position papers. *We do not expect to admit participants who have not submitted a position paper.*

The results of this series of three workshops will be published by Springer-Verlag as Eurographics Seminar Books. The report on the first workshop held in April 1987, *Intelligent CAD Systems 1: Theoretical and Methodological Aspects*, will be published in August 1987.

This series of workshops is being organized with the cooperation of IFIP Working Group 5.2 Workshops on *Intelligent CAD Systems*, but with different scope.

Further information

Please submit **5 copies** of an **extended abstract** or a **position paper up to 1000 words** (figures and references do not count) on A4 sheets (submission by electronic mail is accepted) **before 1 November 1987** to:

Ms Elizabeth Both, Centre for Mathematics and Computer Science, Kruislaan 413, 1098 SJ Amsterdam, The Netherlands. Tel. (overseas) (31) 20592-4171; (from the Netherlands) 020592-4171. Telex 12571 mactrl nl. Electronic mail: pauljan @ cwi.nl (Internet, Bitnet), ...!mcvax!pauljan (Usenet).

The extended abstract or position paper should contain the following information: Name, Address (plus Phone, Telex, E-mail), statements on how you define 'design' and 'intelligent CAD systems', Keywords, Technical Summary, References.

N.B. This is the final version of the Call for Papers. Excursions (i.e. to a clog-making shop, a cheese farm) are planned. Details about this and registration fee, etc. will be in the next announcement.

14-18 MARCH 1988

EDBT 88, International Conference Extending Database Technology, Cini Foundation, Venice, Italy.

The Conference

EDBT 88 will be a forum for presentation of new results in research, development and applications of database technology. The conference will favour the sharing of information between researchers and practitioners and outline the future developments of database systems and applications.

Tutorials will be offered in the first two days of the Conference, and keynote speakers will be invited. The Conference and tutorials will be held at the Cini Foundation on S. Giorgio Island in Venice. Venice will offer an exciting environment for social activities.

Topics of interest

The EDBT 88 Conference will accept scientific and technical papers on all areas of database development, but will primarily focus on extensions of database technology in the following directions:

- Deductive databases and knowledge bases
- Heterogeneous and multimedia databases

- Object-oriented database systems and models
- Environments for database design and programming
- New applications of databases: engineering, office automation and software administration
- Distributed databases and database machines
- Performance issues and implementation techniques

Information for authors

Authors are requested to submit five copies (in English) of a double-spaced manuscript of up to 5000 words by **10 October 1987** to:

Professor Joachim W. Schmidt, Universität Frankfurt, Fachbereich Informatik, Dante-strasse 9, D6000 Frankfurt 1, West Germany. Tel. (49) 69-7988101.

Short papers (up to 1000 words) describing ongoing projects are also solicited; selected short papers will be included in the Proceedings and be the basis of special discussion sessions.

The preprints of the Proceedings will be distributed among the Conference participants. The final version of the Conference Proceedings will be edited and will be published by a major publishing house.

Important dates

10 October 1987

Submission deadline (regular papers and short papers) – FINAL REMINDER

15 December 1987

Acceptance notification

1 February 1988

Camera-ready copies due

Further information

For further organisation information on EDBT 88 please contact:

Michele Missikoff, IASI-CNR, Viale Manzoni 30, 00185 Roma, Italy. Tel. (39) 6-770031.

or

Conference Secretariat:

CRAI, Via Tevere 15, 00198 Roma, Italy. Tel. (39) 6-852500.

16-20 MAY 1988

Eurinfo' 88 First European Conference on Information Technology for Organisational Systems, Athens.

The development of Information Systems cannot be separated from the development of organisational style.

The aim of this Conference is to explore trends and concepts in organisations triggered by the widespread introduction of information technologies. These technologies are making possible profound changes in the way in which organisations react to the market. Technological developments have a significant

impact on the competitive environment of companies in nearly all industries, with administrations and enterprises changing their shape, size, and mode of operation.

Managers can potentially be helped by the widespread growth of information technology. A success factor for management in the future will be the translation of technological possibilities into business benefits. At the same time business requirements will increasingly drive technological development.

Distributed computing and information networks alter the balance between centralised and decentralised decisions, and allow for a wider scope of applications. The company of the future will use computer-integrated business systems. They will integrate office information systems and similar systems supporting technical and other business domains.

The Conference will bring together decision makers, managers and researchers from Europe and overseas who are working on these issues. Key questions the Conference aims to address are the following.

- What are the strategic needs of organisations which are not yet being aided by information technology?
- What are the problems and difficulties with present information technology at both strategic and operational levels?
- What are the most significant trends in information technology?
- How does information technology change the competitive environment and the nature of organisations?
- What are the requirements for further information technology developments from the user's point of view?
- Which new concepts and tools for applied information system design are available?
- What is the payoff for modern technology-based tools in the office? in the factory? for engineers?

The unique approach of the conference is to bring together experts, users, industry leaders and providers to share ideas and information to provide the up-to-date insight and background that is needed for planning and action in this fast-moving field.

In addition to the presentation of scientific and technological advance, the Conference will provide a forum for discussion of the major issues regarding the useful application of information technology to the operational aspects of organisations.

Technical programme

Complex information systems offer suppliers and system designers a very wide range of design options. Early feedback from potential users will be beneficial for all sides. In order to assess the impact of advanced information technology on future organisational systems, and to analyse user needs and user solutions for their impact on technological developments, the technical programme will be developed according to three main themes.

(I) Information management for organisations

(II) Advances in information technology

(III) Examples of advanced systems in a range of application domains

The lists of specific topics following will guide authors who intend to submit papers.

I. Information Management for Organisations

- Information policies
- Information as a resource for organisations
- The organisational and social environments
- The cultural and human environments
- The workplace
- Legal aspects of information systems
- Information security.
- Information management concepts
- Information requirement analysis
- Information system design and development methodologies.
- Information system implementation schemes
- Information system evolution
- Assessment of cost and benefit
- Assessment of user satisfaction
- Assessment of organisational effectiveness
- Architectures for applied information systems
- Generalised application generators
- Computer-integrated business systems
- Domain-specific application packages
- Decision support packages
- User-adaptable software tools
- Regional information and communication structures
- Transnational information and communication structures
- Public information services
- Value-added data systems

II. Advances in Information Technology

- Architectures of large complex systems
- Heterogeneous systems
- Distributed systems concepts
- Local and metropolitan communication networks
- Wide-area communication
- Communication services
- Low-cost professional workstations
- High-quality workstations
- The multimedia human-machine interface
- Speech, visual, manual interface technologies
- Paper input and output
- 2D/3D image recognition and generation
- Natural language interfaces
- Sensors and actuators
- Multi-sensor interfaces
- Process control technology
- Knowledge-based methods
- Object-oriented methods
- Multimedia database systems
- Distributed databases
- Hardware for multimedia storage and retrieval
- Query language implementations
- Methodologies for system development
- Formal standards developments
- De facto standards

III. Examples of Requirements and Advanced systems for a Range of Application Domains

- Banks
- Insurance
- Large public administrations
- Public utilities
- Local communities
- Large industrial corporations
- Small and medium enterprises

- Trade and commerce
- The publishing and printing industries
- Health and social care
- Large and medium-size hospitals
- The transport industry
- Shipping industry
- Environment control
- The agricultural industry
- The mining industry
- Research institutes and universities
- Research laboratories
- Education and training
- Homes

Structure of the Program

Papers. The Conference will be structured in a number of parallel sessions to give appropriate time to each contribution. Each session will be planned to allow more discussion time than usual.

Interactive poster sessions. Some parallel sessions will be arranged in the interactive form which is becoming popular.

Workshops. Some sessions are planned with speakers co-ordinated to address one particular theme. Suggestions for themes, and offers to convene panels are invited.

Videotape demonstrations. New work will be presented in a continuous programme.

Tutorials and management seminars. These will be presented in separate sessions in the 2 days before the conference.

The final program will depend on the number and nature of papers selected by the Programme Committee. Papers submitted should be of high quality, helping the participants to assess the situation in their own organisation. Experience-based contributions are welcome as well as clearly argued future-oriented concepts.

Call for contributions

Contributed papers must be sent before 31 October 1987 to the Programme Committee Secretariat, which will be with the European Commission, DG XIII, in Brussels, Address as follows.

The Programme Committee Chairman, Eur-info '88, Commission of the European Communities, A25 3/8, 200 Rue de la Loi, B-1049 Brussels. Tel. (0032) 2-2351942. Telex 21877 comeu b. Fax (0032)2-23556502.

All papers will be refereed by the International Programme Committee. Presentation at the Conference will be oral or by poster. All accepted papers will be published in the Proceedings, in collaboration with a major international publishing house. All participants will receive a copy. The Conference language is English. Further instructions for the preparation of papers will be sent to proposers after receipt of the notification of intention to submit a paper.

Schedule

31 October 1987. Deadline for submission of papers.

30 November 1987. Notification of acceptance of contributed papers.

ANNOUNCEMENTS

15 January 1988. Deadline for submission of the final camera-ready paper copy.

16–29 May 1988. Conference starts on Monday, 16 May in the afternoon and ends on Friday, 20 May in the evening.

Welcome and Registration desk will be open from Saturday 14 May at the Athenaeum-Intercontinental.

Information, Registration, Accommodation

For further information about technical and scientific matters write to the PC Chairman at the PC Secretariat (address above).

All other correspondence and inquiries to be addressed to:

Conference Office, Eurinfo '88, c/o Ginis Vacances Ltd., 23–25 Ermou Str., 105 63 Athens, Greece. Tel (1) 3229808 and (1) 3241216–19. Telex 219249. Fax (1) 3237703.

8–10 JUNE 1988

Eighth International Conference: Analysis and Optimisation of Systems, Antibes, France.

Call for papers

Scope

The purpose of this Conference is to present the advanced research in the field of Systems Analysis and Control where the most promising applications may be expected.

This meeting, regularly organised every other year by INRIA, will take place near the INRIA Sophia-Antipolis Centre on the French Riviera. The organisers strongly encourage the authors to forward proposals of communications describing the most recent results of research in the field and new applications.

Software demonstrations and industrial products will also be presented in an exhibition.

Topics

I. Control of nonlinear systems

- Algebraic and geometric system theory
- Numerical algorithms

II. Optimisation and optimal control theory

- Nonlinear programming
- Deterministic control
- Control of distributed systems
- Multidecision control and games
- Singular perturbations methods
- Numerical algorithms

III. Stochastic systems

- Stochastic control
- Nonlinear filtering

- Adaptive control
- Partial information and non-classical control

IV. Signal processing

- Stochastic realisation, parametrisation of systems, model reduction
- Identification, detection

V. Special interest sessions

- Discrete events systems (e.g. Petri nets and asynchronous automata)
- Biomedical engineering
- Biotechnological systems
- Control of manufacturing systems
- Networks optimisation
- Control of flexible structures

Instructions to authors

Authors are invited to submit unpublished original papers relating their most recent work. Full papers (about 12 pages) should be submitted in 4 copies. The first page of the communication must be headed with the paper title, affiliation and complete mailing address of the author(s) together with an abstract (about 200 words). The name of the first author mentioned will be used for all correspondence unless otherwise stated. All submitted papers will be examined by the Organisation Committee with the help of experts. The Conference organisation will hold the copyright of accepted papers, which will be published in the Conference proceedings.

Deadlines

- 1 November 1987 Full papers received (4 copies) by the Conference Secretariat.
- 15 January 1988 Notification of acceptance or refusal to authors.
- 1 March 1988 Final copy received by the Conference Secretariat.

Exhibition

Software and industrial products (presented off proceedings) related to the topics of the Conference and/or developing the following aspects:

- computer-aided control systems design
 - expert systems in automatic control
 - computer algebra
- are welcome.

The acceptance of software or industrial demonstrations will be decided by reference to a descriptive paper.

Deadlines

- 1 May 1988 Descriptive paper for the exhibition received (3 copies) by the Conference Secretariat.

15 May 1988 Notification of acceptance or refusal.

Programme

The programme will be circulated in March 1988.

Official languages

English and French.

Sponsorship

AFCET, Association Française pour la Cybernétique Economique et Technique. CNRS, Centre National de la Recherche Scientifique. IEEE-CSS, The Institute of Electrical and Electronics Engineers, Inc. Control System Society (Participating societies). IFAC, International Federation of Automatic Control. IIASA, International Institute for Applied Systems Analysis. SEE, Société des Electriciens et Electroniciens.

Expected sponsorship

INSERM, Institut National de la Santé et de la Recherche Médicale.

Organisation committee

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For further information contact;

INRIA, Service des Relations Extérieures, Bureau des Colloques, Domaine de Voluceau – Rocquencourt, B.P. 105, 78153 Le Chesnay, Cedex, France, Tel. 33 (1) 39 63 56 00, telex 697 033 F.