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Sixth World Congress of IFAC

The IFAC/75 Congress will be held in Boston-Cambridge, Massachusetts, U.S.A., August 24 to 30, 1975. The American Automatic Control Council, the U.S. National Member Organization of IFAC, in cooperation with the Massachusetts Institute of Technology and Harvard University, will be host to this sixth of the triennial IFAC congresses. Previous congresses have taken place in Moscow, Basle, London, Warsaw and Paris.

IFAC is at present comprised of 37 National Member Organizations, each one representing the technical societies concerned with automatic control in its own country. The scope of interest of IFAC and its world congresses is indicated by its Technical Committees: Theory, Applications, Components and Instruments, Systems Engineering, Computers, Space, Economic and Management Systems, Social Effects of Automation, Education, and Terminology and Standards.

The IFAC/75 Technical Program will be arranged in coordinated groups of special interest sessions which will include both invited and contributed papers. Some suggestions already proposed for special interest sessions are:

- Complex and Hierarchical Systems
- Distributed Parameter Systems
- Transportation Systems
- Digital Control Techniques
- Applications Using Mini-Computers
- Control Systems Reliability
- Fluidics
- Systems Modeling
- Identification Theory and Practice
- Societal Systems
- "World" Dynamics
- Environmental Control
- Biocontrols
- Health Care Delivery Automation
- Manufacturing Automation
- Automation Education
- Applications in Developing Countries

Individuals wishing to suggest other topics and/or who would like to participate in organizing a special interest session are invited to contact the chairman of the appropriate IFAC Technical Committee through their National Member Organization, or they may write directly to the IFAC/75 Secretariat in Pittsburgh (address see below).

Technical papers in any of the above special interest topics, or in the broader fields represented by the IFAC Technical Committees are solicited. Papers should be submitted in English with an optional additional copy, if desired, in French, German or Russian. Papers should not exceed 5000 words and 10 figures, and should be accompanied by a 100-word abstract. Four copies of the paper and abstract should be sent to the author's National Member Organization, or if none, to the IFAC/75 Secretariat in Pittsburgh. Deadline for receipt of papers is September 1, 1974. Earlier submission and notification of interest to submit a paper are encouraged.

In addition to technical sessions, the IFAC/75 Congress will feature plenary sessions with speakers of worldwide

reputation, numerous informal discussion groups, plant visits, special arrangements for students, and a social program for wives and family members.

Plan now to attend this outstanding triennial event. Combine a comprehensive updating of what's new in automatic control with informal personal contacts with control experts from throughout the world, and perhaps visits to industrial concerns and historic sites in New England or other parts of the United States.

For further information included in the First Announcement and Call for Papers write to:

IFAC/75 Secretariat,
400 Stanwix Street,
Pittsburgh, Pennsylvania, 15222, U.S.A.

Productivity and Man - An IFAC Workshop

The IFAC Committee on Social Effects of Automation is sponsoring its first Workshop on Productivity and Man to be held at Bad Boll (near Stuttgart), FRG, January 21 to 25, 1974 and organized by the VDI/VDE-Gesellschaft für Mess- und Regelungstechnik.

The Workshop will investigate the technical, economical and social effects of the implementation of automatic control systems, organizational restructure and other changes in work processes in

- industrial production
- administration
- public and private services
- other areas

and provide systems engineers, control engineers, personal managers, trade union leaders and workers at all levels with suggestions aiming at a better understanding between the science of automatic control and the human needs and objectives of the worker.

The reports will deal with case studies on major automation installations with differing industrial and administration applications. The Workshop will then discuss them and try to draw general conclusions.

Potential authors interested in offering a relevant paper for presentation at the Workshop are urged to submit their contribution (3000 - 5000 words, English language, ready for off-set reproduction) to:

M. A. Kaaz,
VDI/VDE-Gesellschaft für
Mess- und Regelungstechnik,
P.O. Box 1139,
D-4000 Düsseldorf 1, FRG,
Tel. 6214 224, Telex 085 86525

by September 15, 1973.

A set of preprints is included in the participation fee amounting to DM 150,-. For registration forms (to be returned as soon as possible but not later than November 30, 1973) and further information write to the above address.

For immediate release

FIACC met at PROLAMAT

In Budapest, mid-April 1973, the "Five International Associations Coordinating Committee - FIACC" (AICA-IFAC-IFIP-IFORS-IMEKO) held its fourth meeting since its inception 1970, and delegates of each of the five federations convened for the primary purpose of discussing the coordination of activities in planned symposia and conferences dealing with common or bordering fields of interest.

As at previous FIACC meetings, a UNESCO representative attended as a guest and advised on questions of relations and cooperation with UNESCO and contributed to discussions on the federations' activities for the purpose of promoting technology in developing countries and of assisting them in their educational problems.

The outgoing Chairman of FIACC *Prof. V. Broida*, France, Past President of IFAC, was succeeded by *Prof. H. Zemanek*, Austria, President of IFIP.

Budapest had been chosen as a venue in view of the 2nd IFIP/IFAC Conference on Programming Languages for Numerically Controlled Machine Tools, PROLAMAT, April 10 to 13, 1973 which was preceded by meetings of the Executive Council of IFAC and some of its Committees. The harmonious adjustment of the various interrelated events influenced the decision to hold the next annual FIACC meeting in conjunction with the 4th International Conference on Digital Computer Applications to Process Control, sponsored by IFAC and co-sponsored by IFIP and IMEKO, in Zurich, Switzerland, March 1974. There and then, IFAC Council and Committee meetings will also take place.

Non-IFAC Meetings

- 4th IRANIAN CONFERENCE ON ELECTRICAL ENGINEERING; Pahlavi University, Shiraz, Iran, May 12 to 16, 1974. Scope: Circuit theory (active and passive networks analysis and synthesis, computer-aided design, graph theory); communication theory (communication networks, stochastic processes, microwave theory and applications); control and system theory (stability, optimal control theory and applications, computer simulation, bio-medical systems); electromagnetic theory (scattering, radiation, propagation, bio-optics); electronics (solid-state electronics, electronic circuits, digital electronics, computer hardware); power systems (generation, transmission, distribution, planning, steady state analysis, stability, optimization, control, protection). Offers of papers in any of these areas together with a 250-word abstract should be directed to *Dr. M. Jamshidi*, 4th ICEE, P.O.Box 737, Shiraz, Iran, prior to December 1, 1973 for preliminary selection. Deadline for the submission of full papers is February 15, 1974.

- PROCESS COMPUTER 1974 - a conference which will be held under the joint auspices of the Gesellschaft für Informatik, the Gesellschaft für Kernforschung, and the VDI/VDE-Gesellschaft für Mess- und Regelungstechnik (National Member Organization of IFAC) at the Nuclear Research Centre Karlsruhe, Federal Republic of Germany, on June 10 and 11, 1974. The objective of the meeting is to report on the state of the art in process computer technology and to determine the trends towards an increased application of process computer hardware and software. Scope: Structures of process computer hardware; function and structure of process computer software; means and methods for the generation of process computer software; man-machine communication in process operation; reliability and safety in process computer systems; project planning and implementation. It is planned to publish the proceedings in the Springer-Reihe "Lecture Notes in Economics and Mathematical Systems". Enquiries: VDI/VDE-Gesellschaft für Mess- und Regelungstechnik, P.O.Box 1139, D-4000 Düsseldorf 1, FRG.

Identification and System Parameter Estimation

With the third in a series of successful IFAC symposia on the subject just passed and the fourth already contemplated for 1976, some information about the outcome of the Third IFAC Symposium on Identification and System Parameter Estimation held in the Netherlands from June 12 to 15, 1973 and attended by about 400 people from 32 countries may be of interest to the reader. Therefore, an extract from a report made available by the Dutch Organizing Committee is given below:

The organizers could look back at a successful symposium on a subject that, while a few years ago still considered to belong completely to the academic atmosphere, proved this week that it is becoming an essential part of systems engineering. It concerns the determination of the relations governing the behaviour of complex systems from the analysis of input and output signals. Such fields as power generation, aeronautics, chemical processes, economics, transportation, biological systems, aerospace, ecological systems, together with several new developments in theory and methods, were covered in five survey lectures, six indepth case studies, three round-table discussions and 14 technical sessions, totalling about 150 papers. A special feature of the symposium was the discussion of two test cases, sets of data on which several institutes tried their methods, the results of which could be compared. This generated interesting debates just as a three hours' round-table session in which theory and applications were confronted. Also tutorial sessions were organized where many people gathered to acquaint themselves with methods and terminology.

The proceedings will be published by North-Holland Publishing Company, P.O.B. 103, Amsterdam-West, the Netherlands, and will be available early October 1973.

New IFAC Symposium Proceedings

Published by the Instrument Society of America (ISA), the proceedings of two recently conducted IFAC Symposia are now available:

- SYSTEMS APPROACHES TO DEVELOPING COUNTRIES, IFAC/IFORS Symposium, Algiers, Algeria, May 28 to 31, 1973. The book contains 75 papers (70 in English, 5 in French with English-language abstracts) in the subject area classified according to the following topics: Management and development policies; agriculture and food; power; water and pollution control; urban planning, transport and communications; gas, oil and cement industries; methodology; education and health; human resources and international cooperation and development.

Edited by *M. Cuénod*, P.E.G., Geneva, Switzerland, and *S. Kahne*, University of Minnesota, USA, 1973, 515 pages, hard cover, illustrated. Price: US \$ 25.

- SENSITIVITY, ADAPTIVITY AND OPTIMALITY, 3rd IFAC Symposium, Ischia, Italy, June 18 to 23, 1973. The book comprises 63 English-language papers on the following topics: Sensitivity analysis; sensitivity methods; techniques of sensitivity reduction; optimization under uncertainty; adaptive systems; min-max strategies and differential games; large scale systems.

Edited by *G. Guardabassi*, *A. Locatelli*, *S. Rinaldi* of the Politecnico di Milano, Italy, 1973, 454 pages, hard cover, illustrated. Price: US \$ 25.

Send orders to:

Instrument Society of America
400 Stanwix Street
Pittsburgh, Pa. 15222, U.S.A.

or if in Europe or Japan:

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