



IFAC

NEWSLETTER

**International Federation
of Automatic Control**

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1978 IFAC/IFIP Workshop on Real-Time Programming (Marienhamn, Finland, June 19-21, 1978).

The Workshop will provide a forum for formal papers and open discussion of real-time programming, especially in areas such as programming methods including problem-oriented programming, operating systems, and distributed real-time systems. The language of the workshop will be English. The registration fee, including a copy of Proceedings, is US\$ 60.

For further information, please contact

The Workshop Organizer
c/o IFAC 78 Secretariat
POB 192
00101 Helsinki 10
Finland

Prolamat (Ann Arbor, Michigan, U.S.A., May 21-23, 1979).

Sponsors

International Federation for Information Processing
International Federation of Automatic Control
Computer Automated Systems Association

Scope

This Conference, which is the fourth in a series of triennial meetings (1969 Rome, Italy, 1973 Budapest, Hungary, 1976 Stirling, Scotland) has become the recognized international forum for the presentation of new research results in computer software for manufacturing technology. On this occasion original papers of a scientific nature are solicited on the following topics:

- Part Geometry Description Systems
- Computer Aided Methods of Manufacturing Planning
- Design of Integrated CAD/CAM Systems
- CNC—New Programming Methods
- Soft-ware for Controlling Measurement and Assembly
- Improving the Man/Machine Interface in NC Systems
- Scheduling Techniques — the Interrelation of Planning and Scheduling
- The Role of Artificial Intelligence in Manufacturing

The Organizers also wish to give industrial users and suppliers an opportunity to present lectures, poster sessions and exhibits on the topics of the Conference at concurrent industrial sessions.

Papers

Proposals for both scientific and industrial type papers are invited from users, suppliers and research workers in the areas indicated.

Preprints and Proceedings

Preprints of the scientific papers and abstracts of the industrial presentations will be available to attendees at the time of the conference. A bound proceedings will be published after the conference with scientific papers published in their entirety and two page abstracts of industrial papers.

Registration

Registration fees will be as follows:

- \$ 120 full conference if registered by December 1, 1978
- \$ 140 full conference (after 12-1-78)
- ½ for educators

Call for papers available from

Society of Manufacturing Engineers
20501 Ford Road—P.O. Box 930
Dearborn, Michigan 48128 USA
Attention: Peter L. Blake
Technical Activities Department

Digital Computer Applications to Process Control Proceedings of the 5th IFAC/IFIP International Conference (The Hague, The Netherlands, June 14-17, 1977).

Edited by H. R. Van Nauta and H. B. Verbruggen
1977 780 pages
Price: US\$ 81.75 (Dfl. 200.00)
ISBN 0-7204-0753-2

This conference was one of the most important subjects in the field of applied control engineering. Its aim was to determine the present status of digital computer applications to process control in different industries. Special attention was given to the application of modern control concepts to practical problems.

These proceedings contain 7 invited survey papers by leading authorities. Ten case studies presented by invited lectures are included, dealing with actual examples of digital control in current applications such as steel plant, power station, hot strip mill, in several chemical processes and in traffic control.

From some 200 additional abstracts submitted, the 75 best technical papers were selected for publication. Of these, 41 deal with applications, and 34 with methods. The latter include discussions on control methods, hardware and software, and general features such as control algorithms, optimization and adaptation, modelling and identification, interfacing, standardization, performance and ergonomics.

World Organisation of General Systems and Cybernetics Fourth International Congress of Cybernetics and Systems (Amsterdam, The Netherlands, August 21–25, 1978).

The above triennial congress is supported by many international bodies concerned with Management, Labour, the Sciences, Computers, Cybernetics, General Systems, and Technology.

The 1978 event follows the Third Congress held in 1975 in Bucharest, Romania that attracted over 1200 experts from 38 countries.

Agenda

The Congress will comprise three symposia, seven sections, an Open Forum, various special meetings, and formal presentation of the Norbert Wiener Awards.

Three Half-day Symposia:

“Social Systems” “Computer Privacy” “Robots”

Seven Section Meetings:

- Artificial Intelligence
- Cybernetics of Economic Systems and Management
- Industrial Cybernetics, including automation
- Informatics and Education
- Neuro and Bio-Cybernetics
- Social Systems
- Systems and Models, including environmental problems

Further Information

Application form from

Dr. J. Rose (W.O.G.S.C.)
c/o College of Technology
Feilden Street, Blackburn BB2 1LH
Lancashire, England
Telephone: 0254-64321

IMACS (AICA) Symposium on: Simulation of Control Systems with Special Emphasis on Modelling and Redundancy (Vienna, Austria, September 27–29, 1978).

The papers cover theoretical and/or practical aspects of simulation of control systems, no matter which tool is to be used: digital, analog or hybrid computers or microprocessor.

All correspondence should be addressed to:

Univ. Prof. Dr. Inge Troch
Inst. f. Techn. Mathematik
Gusshausstrasse 27–29
A 1040 Wien, Austria.

Simulation, Modelling and Decision in Energy Systems (Montreal, Canada, June 1–2, 1978).

Sponsored by:

The International Association of Science and Technology for Development (IASTED).

The meeting covers simulation, modelling and decision in the broad area of energy systems including electrical, oil and gas, nuclear, coal, solar, hydrogen, wind, water and tidal systems. The topics covered include methodology, identification, forecasting, economics, environmental impact, protection, selection, exploration, generation, production, distribution, transportation, storage, management, control, optimization, conservation, marketing, financing and applications.

Further information from

Dr. M. B. Carver
Atomic Energy of Canada
Chalk River, Ontario
Canada K0J 1J0

The 8th IFORS International Conference on Operational Research (Toronto, Canada, June 19–23, 1978).

The triennial IFORS conference presents an opportunity for people from all parts of the world to meet in congenial surroundings and exchange ideas and experiences. It provides a forum where operational research solutions to problems of national and international importance pertaining to both government and industry can be discussed. The conference, particularly the workshops, can be a vehicle for opening new horizons to operational research problem solving.

Further enquiries about the conference can be made to:

Philip Baldwin
Registrations Coordinator
2521 Avongate Drive
Mississauga, Ontario
L5C 2X4
Canada