



IFAC

NEWSLETTER

International Federation of Automatic Control

Editor:
Prof. M. Kümmel,
Dept. of Chem. Eng.
Technical University of Denmark
2800, Lyngby, Denmark

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Finland

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

Organized by the Royal Institution of Engineers in the Netherlands. Second announcement available from

IFAC/IFIP 1977 c/o KIVI
23 Prinsessegracht
The Hague - The Netherlands

Telex: 3341 Kivi nl
Telephone: 070-646800
Telegraphic address: Koninsting - The Hague

IFAC Workshop on Information and Systems (Compeigne, France, 25-27 October 1977).

Organized by Association Francaise pour la Cybernetique et Technique (AFCET).

Purpose

The aim of the workshop is to discuss recent results in the development and application of information in the area of systems.

Topics

1. Information and estimation theory
2. Information and control theory
3. Information and modeling
4. Information and learning and pattern recognition
5. Information and general systems theory
6. Information and biological systems
7. Information and large systems
8. Measuring information and information flows

Further information from

Professor B. Duboisson
Université de Technologie de Compeigne
Département M.A.I.
B.P. 233
60206 Compeigne Cedex
France

IFAC Workshop on Case Studies in Automation Related to Humanization of Work (Enschede, The Netherlands, 31 October-4 November 1977).

Organized by Twente University of Technology.

Purpose

The aim of the Workshop is to evaluate actual situations, concerning humanization of work, in cases where processes or systems have been (partially) automated. The centre of attention is to be the worker and his/her working conditions (environment and work contents), possibilities of self-realization, relation to colleagues, etc. Opportunities will be offered for intensive discussion between control and automation engineers on the one hand, and social scientists and labour and management representatives on the other.

Programme

Papers will be solicited in the following fields:

- mechanical and electronic assembly
- numerical control of machine tools
- supervision of processes or systems (in industrial and non-industrial sectors).

The programme will be supplemented by introductory papers and by sessions to summarise the subject, and to indicate future developments. All correspondence should be addressed to

IFAC Workshop 1977
c/o Stob, P.O. Box 217
Enschede
The Netherlands

NON IFAC EVENTS

IFIP Working Conference on Modeling and Simulation of Land, Air and Water Resources Systems (Ghent, Belgium, 30 August-2 September 1977).

Topics

Mathematical models and their computer implementation have become important tools in examining alternative control strategies in air and water resources management and in obtaining popular support for remedial measures. There are marked similarities in the mathematical and computational techniques for treating diverse environmental problems. It will therefore be the aim of this working conference to discuss environmental problems in a unified manner. The papers should deal with the mathematical description of the depletion, modification, and transient

pollution of the water, the land and the air environment as a direct result of human activities.

Environmental problems fall in the area of 'large' field problems characterized by uncertainties as to the geometry of the system, the field parameters and the internal characteristics, and by the relatively low quality of system observation. Simulation of such 'large' distributed parameter systems presents problems which are different from those encountered in 'small' field modeling. Interested research workers are kindly requested to apply for an invitation immediately from: G. C. Vansteenkiste.

Further information available from

Ghislain C. Vansteenkiste (Professor of Engineering)
University of Ghent, Coupure Links 533
B. 9000 Ghent, Belgium

IMEKO Symposium: Teaching Measurement Science Through Laboratory Experiments (Stockholm, Sweden. 29-31 August 1977).

Papers and discussion at the Symposium are to be concerned with topics suitable for laboratory teaching/planning of and carrying out experiments, analog and digital simulation, selection of instruments and components, application of automatic measurement systems, interfacing instruments to computers, influence of electrical interference on measurement systems, etc. as well as with different methods of teaching these topics/laboratory exercises, project training, field training in industry, examination in experimental sciences etc.

Further information available from

IMEKO Secretariat
POB 457
H-1371 Budapest, Hungary

IMEKO Conference on Industrial Weighing (Odessa, USSR. 20-22 September 1977).

Topics

1. Up-to-date weighing methods in the heavy industries
2. Novel weighing systems and instrumentation
3. Possibilities of application
4. Standardization, metrological and theoretical aspects of weighing

Inquiries should be directed to

IMEKO Secretariat
POB 457
H-1371 Budapest, Hungary

Telex: 225792 mtesz
Phone: (36-1) 124 116

Reports on Computer Applications in Shipping and Shipbuilding

Ship Operation Automation - volume 2.

(Edited by Pitkin, Roche & Williams) Approx. 650 pages. Regular sales price: US\$ 75.00/Dfl. 195.00

The Second Symposium on Ship Operation Automation held in Washington D.C., 30 August-2 September 1976. It was the intent of this Symposium, the Proceedings of which will be included in this volume, to promote the exchange of information and experience among shipping people, engineers and scientists in the field of ship automation. Emphasis will be placed on automation systems; economic and social factors are considered in addition to technical problems.

Main topics are

1. Bridge systems
2. Engine room systems
3. Cargo handling
4. Ship operations, management and information systems

Computer Applications in the Automation of Shipyard Operation and Ship Design - volume 2.

(Edited by Borgstrom, Jacobsson & Williams) Approx. 580 pages. Regular sales price: US\$ 67.25/Dfl. 175.00

The volume contains the Proceedings of the ICCAS 76 Conference held in Gothenberg, Sweden, 8-11 June 1976. 54 lectures were delivered at the conference.

Automation in Offshore Oil Field Operation

(Edited by Galtung, Røsandhaug & Williams) Approx. 442 pages. Regular sales price: US\$51.95/Dfl. 135.00

This volume reflects the lectures presented at the IFIP/IFAC Symposium on Automation in Offshore Field Operation held in Bergen, Norway, 14-17 June 1976.

The intention of the Symposium is to present the state of the art and potential future developments of automation and system engineering in offshore oil and gas field exploration and production. Emphasis is placed upon practical applications including safety and economical factors. The applications of computer systems in these topics is also explored.

These volumes can be ordered from

North-Holland Publishing Company
P.O. Box 211, Amsterdam
The Netherlands

in the USA/Canada:
52 Vanderbilt Avenue
New York, N.Y. 10017