7th Triennial IFAC World Congress (Helsinki, Finland, 12–16 June 1978) Local Organizer of the Congress, Finnish Society of Automatic Control

Scope of the Congress

The scope of the Congress covers Science and Technology of Control in the broadest sense in all systems in both theory and application.

The sphere of interest of IFAC and its world congresses is indicated in detail by its technical committees: Applications, Biomedical Engineering, Components and Instruments, Computers, Economic and Management Systems, Education, Manufacturing Technology, Mathematics of Control, Social Effects of Automation, Space, Systems Engineering, Terminology and Standards, and Theory.

The technical sessions will be collected in coordinated series around topics of special interest. The proposed special interest sessions are the following:

Applications
Control of Power Plants and Systems
Metallurgical Process Control
Control of Pulp and Paper Processes
Methodology for Chemical Process Synthesis
Design and Control of Large Complex Chemical Process Systems
Energy and Rawmaterial Savings by Automatic Control
Applications of Microprocessors in Process Control
Environmental Systems
Advanced Process Computer Applications (as computer-aided design of control systems, adaptive control and optimization).

Biomedical Engineering
Control Automation in Health Care
Identification of Biochemical Processes

Component and Instruments
Application of Methods of Control and Dynamics Theory of the Analysis and Design of Components

Computers
Microprocessors
Software for Control

Economic and Management Systems
Methodology and Applicability of Control Science in Economic and Management Systems

Education
Manufacturing Technology
Industrial Robotics

Mathematics of Control
Differential Games
Singular Perturbations
Nonlinear Programming Applications to Control

Social Effects of Automation

Space
Automatic Control in Space Systems
Control and Optimization Problems in Aeronautics

Systems Engineering
Urban, Regional and National Planning
Large Scale Energy Systems
Water Resources
Transportation Systems
Modelling and Control of Plants of Animal Production Processes

Terminology and Standards
Theory
Multivariable Control
Adaptive Control
Identification and Estimation
Optimal Control Including Stochastic Systems

Prospective contributors are invited to submit papers for the Congress. The papers shall be written and submitted according to the following rules:

Date: To assure consideration, the draft manuscripts and abstracts must be postmarked by May 1, 1977.

Mailing address: Mail four copies of manuscripts and abstracts to your National Member Organization, if none to the IFAC 78 secretariat.

Identification: Clearly state that your paper is being submitted for IFAC/78 Helsinki. Identify the primary Technical Committee area to which it belongs. If appropriate identify also one of the special interest sessions. Provide this information both with the manuscripts and the abstracts.
Languages: The organizers ask the authors to provide the manuscripts and abstracts in English which is the preferred working language of the Congress.

Important Dates and Deadlines
Submission of manuscripts and abstracts: 1 May 1977
Notification of acceptance: 31 October 1977
Mailing of advance program: November 1977
Submission of final manuscripts and abstracts: 31 December 1977
Early registration: Before 31 March 1978
Congress: 12–16 June 1978

Second Announcement and Call for Papers available from your National Member organization or from:
IFAC 78 Secretariat
POB 192
00101 Helsinki 10, Finland

IFAC WORKSHOP

Sponsored by: IFAC Technical Committee on Economics and Management Systems, IFAC Committee on Systems Engineering, and IFORS.

Organized by National Centre for Cybernetics and Computer Techniques.

Purpose
The aim of the Workshop is to discuss experiences and exchange information on the problems connected with the Control of Management Systems, considering these systems as dynamic.

Attention will be given to the management system control techniques irrespective of the specific subject of the control. Speakers are invited to present papers on each of the following topics:
1. Control of large-scale management systems
2. Balance between centralized and decentralized control
3. Management structure
4. Application of pattern recognition and artificial intelligence in economics and management.

First announcement and call for papers available from:
National Centre for Cybernetics and Computer Techniques of the Committee for Science, Technical Progress and Higher Education
8 Slavyanska Street, Sofia, Bulgaria

EUROMICRO, Third Symposium on Microprocessing and Microprogramming (Amsterdam, Holland, 3–6 October 1977).

Organized by the European Association for Microprocessing and Microprogramming (EUROMICRO), in collaboration with the ECI and IEEE Computer Society, and with the support of the EEC Commissions of the European Research Office.

Papers covering new concepts, recent developments, and original applications are solicited.

Deadlines
Four copies of the manuscripts and 200-word abstract should be received by the Program Chairman by March 14, 1977.

Authors will be notified of acceptance by June 1. The final camera-ready paper will be due on June 27, 1977.

Call for papers available from:
Ted Holtwijk, Philips Elcoma,
Bdg. BAE 2, NL–Eindhoven
Netherlands
Tel. (040) 72 23 25
Telex 51 121

For first circulation and call for papers contact:
IMEKO Secretariat
H–1371 Budapest, POB 457
Hungary

Distributed Computer Control Systems

Aims
It is the aim of the Conference to bring together the users, designers, and research workers of computer control systems in order to present and discuss the recent developments in the hardware, software, theory, design and application of systems in which the control functions are distributed throughout the controlled system.

Scope
The topics in the programme will deal with the characteristics and structures of distributed control systems including: Implementation using microprocessors, microcomputers and minicomputers, intercommunication, parallel working, information processing and display, programming languages, software structure, management of software design, applications, economics, reliability and maintenance, human factors, standardization of interfaces.

Further information available from:
The Institution of Electrical Engineers
Savoy Place, London WC2R OBL
Great Britain.