

**IFAC****INFORMATION BULLETIN**

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of Automatic Control**Published by the IFAC Secretariat
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Subject	Date	Place	Contact Address
Programming Languages for Numerically Controlled Machine Tools - PROLAMAT (2nd IFIP/IFAC Conf.)	April 10-13	Budapest, Hungary	PROLAMAT '73, P.O.B. 63, Budapest 112, Hungary
Systems Approaches to Developing Countries (IFAC/IFORS Conf.)	May 28-31	Algiers, Algeria	Dir. Y. Mentalechta, Commissariat à l'Informatique, 4 bvd. Mohamed V, Algiers, Algeria
Automatic Control in Space (5th IFAC Symp.)	June 4-8	Genova, Italy	Dr. Franco Bertoldi, Istituto Internazionale delle Comunicazioni, Via Pertinace, Villa Piaggio, 16125 Genova, Italy
Identification and System Parameter Estimation (3rd IFAC Symp.)	June 12-15	The Hague, Netherlands	IFAC 1973 c/o Klvl, 23 Prinsessegracht, The Hague, Netherlands
Sensitivity, Adaptivity and Optimality (3rd IFAC Symp.)	June 18-21	Ischia, Italy	A. Locatelli, Istituto di Elettrotecnica ed Elettronica, Politecnico di Milano, 32 Piazza L. da Vinci, 20133 Milano, Italy
Ship-Operation-Automation (IFAC/IFIP Symp.)	July 2-5	Oslo, Norway	Kjell Lind, The Ship Research Institute of Norway, 7034 Trondheim - NTH, Norway
Dynamic Modelling and Control of National Economies (IFAC/IFORS Conf.)	July 9-12	Coventry, England	The IFAC/IFORS Conference Secretariat, IEE Conference Department, Savoy Place, London WC2R OBL, England
Automatic Control in Mining, Mineral and Metal Processing	August 13-17	Sydney, Australia	The Secretary, The Institution of Engineers, Australia, 157 Gloucester Street, Sydney, N.S.W. 2000, Australia
Dynamics and Control in Physiological Systems (IFAC/IFIP/IFORS Symp.)	August 22-24	Rochester, N.Y., USA	Prof. G.H. Cohen, Dept. of Electrical Engineering, University of Rochester, Rochester, N.Y. 14627, USA
Computer Applications in the Automation of Shipyard Operation and Ship Design (IFIP/IFAC Conf.)	August 28-30	Tokyo, Japan	Prof. T.J. Williams, Purdue Laboratory for Applied Industrial Control, Lafayette, Indiana 47907, USA
Control of Water Resource Systems (IFAC/IFORS/IMEKO Symp.)	September 17-21	Haifa, Israel	Prof. H.J. Shafer, Technion, Israel Institute of Technology, Haifa, Israel
Automatic Control in Glass (IFAC/IMEKO Symp.)	September 25-28	Lafayette, Ind., USA	Symposium on Automatic Control in Glass, Division of Conferences, Room 116, PMC, Purdue Univ., Lafayette, Ind. 47907, USA

The Fifth World Congress of IFAC

The IFAC Congress which was held in the UNESCO premises in Paris from June 12 to 16, 1972, essentially pursued the tradition of the four previous IFAC Congresses (Moscow 1960, Basle 1963, London 1966, Warsaw 1969). The Organizing Committee, established by the Association Française pour la Cybernétique Economique et Technique, AFCET, had gone new ways by cooperating not only with IFAC but also with six international and two national federations. Most fortunately for the congress participants, the attendance did not increase through this enlarged basis but was even a little lower (about 1200 people from 36 nations) than at previous IFAC congresses.

The hard work of the International Programme Committee in selecting the best papers offered resulted in a reduction of the number of papers (218) compared with previous congresses (e.g. Warsaw: 303). The number of Survey Sessions (12) and Round Table Discussions (8) remained at par with the Warsaw Congress.

An attempt has been made to emphasize the applications side of automatic control theory and it seems that this goal has, to some extent, been achieved.

Certainly, the success of this congress was largely the result of the strong and indefatigable efforts of the IFAC President *Dr. Victor Broida* who has carried the heavy burden of responsibility for the three years of his term. He was backed by the IFAC Executive Council and assisted by the officials of AFCET in the organizational work, and by the International Programme and Selection Committees in the scientific work. The important contribution made by about fifty busy men volunteering in the various committees charged with the congress preparations deserves our gratitude; this applies equally to the work done in the national committees in the pre-selection of papers.

In his opening speech, President *Broida* gave a survey of the 15 years of IFAC's existence, elaborating on highlights starting from the creation of a Provisional Committee under his own chairmanship in 1956 on the occasion of the congress held in Heidelberg and the foundation of IFAC 1957 in Paris. Since then a steady growth in IFAC activities, the world over, manifests the soundness of the IFAC idea. This is, to a large degree, owing to the efforts and wisdom of IFAC's past presidents: *Dr. H. Chestnut*, Academician *A.M. Letov*, Prof. *Ed. Gerecke*, Prof. *J.F. Coales*, Prof. *P.J. Nowacki* and Prof. *V. Broida*, now succeeded by *Mr. J.C. Lozier*, and to the many able and unselfish IFAC scientists and engineers.

G. Ruppel

PROLAMAT '73

The Second International Conference on Programming Languages for Numerically Controlled Machine Tools "PROLAMAT '73", sponsored by IFIP and IFAC, will be held in Budapest, Hungary, April 10 to 13, 1973.

48 technical papers will be presented in six consecutive, discussion-oriented sessions on

- Interactive, Conversational and Graphic Programming
- Using NC Programs and Integrated CAD/CAM Systems
- Designing NC Programs
- Surface Description Programs
- Technological Programming and Production Control
- CNC, DNC and Post-Processing for CNC/DNC Systems

Additional Round Table Discussions are planned. Conference languages: English and Russian, with simultaneous translation.

Registration fee (preprints included) before January 1, 1973: US \$ 50, after that date: US \$ 60. Registration forms and further information obtainable from

PROLAMAT '73
P.O.B. 63
Budapest 12 / Hungary.

Automatic Control in Space

The 5th IFAC Symposium on Automatic Control in Space will be held in Genova, Italy, June 4 to 8, 1973. A call for papers was published in IFAC Bulletin No. 68 of December 6, 1971. Since then, the deadline for the submission of abstracts has been extended, namely to October 31, 1972. By that time, abstracts (in English, about 500 words) of papers relating to outer-space base systems, conventional base systems, unusual base systems, new problems in automatic control, should reach either of the following addresses:

- *Dr. Ing. W. Haeussermann*, NASA, Marshall Space Flight Center, Huntsville, Alabama, USA (for authors from USA)
- Acad. Prof. *A.M. Letov*, USSR National Committee on Automatic Control, Profsojuznaja 81, Moscow, USSR (for Authors from USSR)
- Prof. *U. Pellegrini*, Presidente, ANIPLA, 1 Piazza Belgioioso, 20121 Milano, Italy (for authors from other countries).

A printed brochure including detailed information of interest to prospective authors and attendees, as well as registration and hotel accommodation forms can be obtained from:

Dr. Franco Bertoldi
Istituto Internazionale delle Comunicazioni
Via Pertinace, Villa Piaggio
16125 Genova, Italy.

Ship-Operation-Automation

Under this title a symposium sponsored by the IFAC Technical Committee on Applications and co-sponsored by the International Federation for Information Processing (IFIP) will be held in Oslo, Norway, July 2 to 5, 1973. Three Scandinavian countries have joined forces in organizing the meeting and the societies involved are the Norwegian Society for Automatic Control, the Norwegian Society for Information Processing, the Swedish National Committee for IFAC, the Swedish Society for Information Processing, and the Danish Automation Society.

It is the intent of the Symposium to promote an exchange of information and experience among shipping people, engineers, and scientists in the field of ship automation. Emphasis will be placed on systems concepts, including economic and social factors in addition to the technical problems.

Papers are invited in the following fields of interest:

- Bridge Systems: Navigation; anti-collision, anti-grounding; hull stresses; docking; traffic control; manoeuvring; integrated systems.
- Engine Room Systems: Propulsion; auxiliaries; condition monitoring; detection and prevention of hazardous conditions; integrated systems.
- Cargo Handling: Container cargo; bulk cargo; liquid and liquified gas cargo; general cargo; load calculations and distributions.
- Ship Operations, Management and Information Systems: Economy; scheduling; routing; maintenance planning; tele-communications; man-machine communications; socio-technical analysis; integrated systems.

Potential authors should submit an abstract (in duplicate, 200 - 300 words, in English) to the Secretary of the Organizing Committee,

Kjell Lind
The Ship Research Institute of Norway
7034 Trondheim - NTH, Norway

by September 15, 1972, at the latest.

Further details as well as provisional registration forms are obtainable from the address given above.

Digital Computer Applications to Process Control

This will be the fourth in the series of IFAC/IFIP Conferences on the subject. The traditional co-sponsorship by IFIP (International Federation for Information Processing) will, this time, be extended to two more participating federations, namely IMEKO (International Measurement Confederation) and RILEM (Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions - International Union of Testing and Research Laboratories for Materials and Structures). The Conference, organized by the Swiss Federation of Automatic Control, will be held in Zurich, Switzerland, March 19 to 22, 1974.

Potential authors are invited to offer papers classified according to the following topics:

- Digital Control Algorithms
- New Developments of Process Computers Hardware and Software
- Digital Control in Chemical and Oil Industries
- Digital Control in Cement Industry
- Digital Control in Pulp and Paper Industries
- Digital Control in Metallurgical Processes
- Digital Control in Power Systems
- Digital Control in Machine Industry
- Digital Control in other Processes: Material Handling and Storage etc.
- Reliability of Digital Control
- Economics of Digital Control.

Emphasis will be placed on papers applying modern control theory to practical problems.

Abstracts (in triplicate, 200 - 300 words preferably in English or else in French or German) should be submitted for pre-selection to

IFAC/IFIP Conference
Wasserwerkstrasse 53
8006 Zürich / Switzerland

not later than February 15, 1973.

All enquiries and communications should be directed to the address given above.

Non-IFAC International Conferences

- 23rd INTERNATIONAL ASTRONAUTICAL CONGRESS of I.A.F. (International Astronautical Federation); Vienna, Austria, October 8 to 15, 1972. Congress Motto: Space for World Development. Contact address: Österreichische Gesellschaft für Weltraumforschung und Flugkörpertechnik, 27 Theresianumgasse, 1040 Wien, Austria.
- IBI-ICC FIRST WORLD CONFERENCE ON INFORMATICS IN GOVERNMENT; Florence, Italy, October 16 to 20, 1972. Highlights in plenary sessions on: Approaches towards informatics in government administration; economic and social aspects; manpower, education, training and impact on society; databanks in government, and the aspects of privacy. Contact address: IBI-ICC (Intergovernmental Bureau for Informatics - International Computation Centre), 23 Viale della Civiltà del Lavoro, 00144 Roma, EUR, Italy.
- 16th CIOS (Conseil International pour l'Organisation Scientifique) WORLD MANAGEMENT CONGRESS; Munich, Fed. Rep. of Germany, October 23 to 26, 1972. Congress Motto: Management's commitment in building the world of tomorrow. Contact address: Rationalisierungs-Kuratorium der Deutschen Wirtschaft, Postfach 119 193, Frankfurt/Main 8, Fed. Rep. of Germany.
- 7th AICA (Association Internationale pour le Calcul Analogique) CONGRESS ON HYBRID COMPUTATION; Prague, Czechoslovakia, August 27 to 31, 1973. Major areas: Theoretical problems of analog and hybrid computation; applications of analog and hybrid computers; design and components of hybrid systems. Contact address: Organizing Committee, Dum Techniky CVTS, Gorkého nám. 23, Prague, Czechoslovakia.

New IFAC Symposium Proceedings

The Proceedings of the IFAC Symposium on the Control of Distributed Parameter Systems held in Banff, Canada, June 21 to 23, 1971, consists of two volumes and comprises 87 papers and discussions dealing with significant issues of practical and theoretical interest in the field. Editor of the proceedings is *Dr. M.H. Hamza*, University of Calgary, Calgary 44, Alberta, Canada. The proceedings (900 pages) can be ordered at a cost of Can. \$ 30.00 from:

T.M.S. Services,
Box 3243, Postal Station B,
Calgary, Alberta, Canada.

IFAC Proceedings (from 1970 onwards to update the list published in Bulletin No. 55)

Meeting	Subject	To be ordered from	Price	Remarks
IFAC Symposium, Toulouse, March 1970	Automatic Control in Space (3rd Symp.)	Instrument Society of America (ISA), 400 Stanwix Street, Pittsburgh, Pa. 15222, USA	\$ 44.00	
IFAC/IFIP Symp., Versailles, June 1970	Traffic Control	AFCET, Centre Universitaire Dauphine, Pl. du Maréchal de Lattre de Tassigny, Paris 16e, France	90 F. F.	Set of preprints (9 volumes)
IFAC Symposium, Prague, June 1970	Identification and Process Parameter Estimation (2nd Symp.)	Publishing House CSAV Academia, Vodičkova u. 40, Praha 1-Nové Město, CSSR	\$ 20.00	
IFAC Symposium, Kyoto, August 1970	Systems Engineering Approach to Computer Control	Instrument Society of America (ISA), 400 Stanwix Street, Pittsburgh, Pa. 15222, USA	not yet known	available shortly
IFAC Conference, Brussels, May 1971	PRP-Automation; Instrumentation and Automation in the Paper, Rubber and Plastics Industries	Swets & Zeitlinger, Book Department, Keizersgracht 487, Amsterdam, Netherlands	1250 F. B. (Belg. Francs)	
IFAC/IFIP Conf., Helsinki, June 1971	Digital Computer Applications to Process Control (3rd Conf.)	Instrument Society of America (ISA), 400 Stanwix Street, Pittsburgh, Pa. 15222, USA	\$ 42.00	
IFAC Symposium, Banff, June 1971	The Control of Distributed Parameter Systems	T.M.S. Services, Box 3243, Postal Station B, Calgary, Alb., Canada	Can. \$ 30.00	
IFAC Symposium, Prague, June 1971	Fluidics (2nd Symp.)	Org. Committee, 2nd IFAC Symp. on Fluidics, Technická 4, Prague 6, CSSR	\$ 20.00	Preprints and Appendix vol.
IFAC Symposium, Lafayette, August 1971	Interfaces with the Process Control Computer - The Operator, Engineer and Management	Instrument Society of America (ISA), 400 Stanwix Street, Pittsburgh, Pa. 15222, USA	\$ 15.00	
IFAC Symposium, Győr, September 1971	Digital Simulation of Continuous Processes (DISCOP)	Org. Committee, Symp. on Simulation, P.O.B. 63, Budapest 112, Hungary	\$ 18.00	Preprints (2 vol.)
IFAC Symposium, Dubrovnik, September 1971	Automatic Control in Space (4th Symp.)	„Tehnika”, Kneza Milosa 7/III, Belgrade, Yugoslavia	\$ 40.00	
IFAC Symposium, Brussels, Sept./Oct. 1971	Automatic Control and Computers in the Medical Field	Institut Belge de Régulation et d'Automatisme (IBRA), 3, Rue Ravenstein, Brussels 1, Belgium	1000 F. B. (Belg. Francs)	
IFAC Symposium, Düsseldorf, October 1971	Multivariable Technical Control Systems (2nd Symp.)	Elsevier/North-Holland, Book Division, POB 3489, Amsterdam, Netherlands	Hfl. 200.00	
5th IFAC Congress, Paris, June 1972		Instrument Society of America (ISA), 400 Stanwix Street, Pittsburgh, Pa. 15222, USA	\$ 85.00 for individuals \$ 125.00 for institutions	available shortly