



*For immediate release*

### 5th World Congress of IFAC

Detailed information on the forthcoming IFAC Congress, Paris, June 12 to 17, 1972 was included in the previous No. 69 of the IFAC Bulletin published on December 7, 1971. Since then, the Provisional Programme together with registration and other forms has been widely distributed by AFCET, the French organizers and member organization of IFAC, and all those who are interested and have not got it yet should immediately write to

AFCET, Immeuble Centre Dauphine,  
Place du Maréchal de Lattre de Tassigny,  
75 Paris 16e, France.

The deadline for early registrations is April 15, 1972. For registrations made before that date, the fee will be 400 French Francs; after that date the fee will amount to 450 French Francs. Accompanying persons pay 50 French Francs before and 60 French Francs after the deadline.

### Systems Approaches to Developing Countries

A call for papers with detailed information, except for the exact dates, was included in IFAC Bulletin No. 67. This IFAC-IFORS Conference on Systems Approaches to Developing Countries to be held in Algiers, Algeria, will begin with the opening session on Monday morning, May 28, 1973, and last till Thursday, May 31, 1973, inclusive.

### Identification and System Parameter Estimation

For the third time, the IFAC Theory Committee is sponsoring a symposium on that subject, this time, however, with the co-sponsorship of the IFAC Applications Committee. The symposium organized by the Dutch National Member Organization of IFAC (the Royal Institution of Engineers, Division for Automatic Control) will take place in The Hague from June 12 to 15, 1973.

The aim of the Symposium is to present, discuss and summarize recent advances in modelling methods, quantitative evaluation of parameters and practical results of such methods. They may be applied to systems in industry, economy and biology with the principal purpose of a better understanding or improvement of the control of such systems.

Papers are invited on the following topics:

**METHODS:** Correlation techniques - model adjustment techniques - Bayes' and maximum likelihood procedures - model building - selection of test signals - state estimation techniques - adaptive and dual control.

**APPLICATIONS:** Chemical and petroleum processes - iron and steel processes - paper, cement and glass processes - aero and space vehicles - power generation - systems in economy and ecology - biological objects.

Special features planned for the symposium are surveys of application areas, case studies, a tutorial course on the mathematical aspects of identification and estimation, informal discussion sessions, and a multiresolution test case for the evaluation of proposed methods.

Offers of papers with abstracts in English (200 to 300 words) should reach the Organizing Committee,

IFAC 1973 c/o Kivl,  
23 Prinsessegracht,  
The Hague, The Netherlands,

not later than September 15, 1972. This is also the contact address for any other correspondence relating to the symposium.

### Sensitivity, Adaptivity and Optimality

This third IFAC symposium in that field has been conveniently scheduled for all those who wish to attend both the Dutch symposium on Identification and System Parameter Estimation (outlined above) and this one which is planned to be held from June 18 to 21, 1973 on the island of Ischia in the gulf of Naples, Italy. The symposium, sponsored by the IFAC Theory Committee, is organized by the Commissione Italiana per l'Automazione and the Associazione Nazionale Italiana per l'Automazione.

It is the intent of the symposium to determine the present status of feedback theory and its applications to the control of systems under uncertainty (parameters, subsystems, disturbances).

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

- Sensitivity analysis; structural properties of dynamic systems versus uncertainty; design methods leading to reduction of system sensitivity.
- Learning theory and schemes resulting in system adaptation to changes in environment.
- Min-max approaches to worst case design.
- Problems of feedback synthesis and sensitivity analysis of differential game strategies.
- All problems above in case of large systems.

English-language abstracts in triplicate (200 to 300 words) should be submitted by April 15, 1972, to the Secretary of the Organizing Committee

*A. Locatelli,*  
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Politecnico di Milano,  
Piazza L. da Vinci 32,  
20133 Milano, Italy.

All other relevant correspondence should also be sent to that address.

### Automatic Control in Mining, Mineral and Metal Processing

With the sponsorship of the IFAC Applications Committee and with the co-operation of the South African Council for Automation and Computation (member organization of IFAC), a symposium in that subject area will be held by The Institution of Engineers, Australia (member organization of IFAC), The Institution of Radio and Electronics Engineers Australia, The Australasian Institute of Mining and Metallurgy, and the Australian Computer Society Incorporated. The symposium will take place at the University of New South Wales, located at Kensington, a suburb of Sydney, from August 13 to 17, 1973. (Note: Previously scheduled for Aug. 20 - 24 as listed in IFAC Bull. No. 68).

The symposium will cover the application of automatic control and processing in areas such as:

**MINING:** Prospecting, survey and mine design techniques - materials handling - transportation - mining equipment - ventilation.

**MINERAL PROCESSING:** Grinding and flotation - agglomeration - cement kilns - beneficiation - blast furnaces and direct reduction.

**METAL PROCESSING:** Steelmaking - non-ferrous metal production - reheat furnaces - rolling mills.

**INSTRUMENTATION:** Measurement techniques for the above processes.

**CONTROL EQUIPMENT AND COMPUTERS:** System design techniques - design of equipment and computers - programming techniques.

**THEORY:** Identification, optimisation and modelling - techniques applicable to the above systems.

Preference will be given to papers which include operating experience with existing systems, investigations into proposed control systems and surveys of developments. Papers of an essentially theoretical nature will be assessed for their potential practical application in the foreseeable future, this being consistent with the aims of the IFAC Applications Committee.

Offers of papers with proposed titles and abstracts (typed in duplicate, double spaced, not more than 80 lines) should reach

The Secretary,  
The Institution of Engineers, Australia,  
157 Gloucester Street,  
Sydney, N.S.W. 2000. Australia,

by October 15, 1972. The abstract should represent a concise description of the work to be reported and should indicate the scope, significance and novelty of the paper and its relevance to the theme of the symposium.

Enquiries should be directed to the address given above.

### American Automatic Control Council

The US member organization of IFAC has transferred its Secretariat and the new address is:

American Automatic Control Council,  
c/o Dr. I. Joseph Shapiro,  
Bell Telephone Laboratories, Room 1L209,  
Whippany, New Jersey, 07981 / USA.

### Non-IFAC Conferences

- **SIXTH INTERNATIONAL CONFERENCE ON OPERATIONS RESEARCH;** Dublin, Ireland, August 21 - 25, 1972. Enquiries: International Federation of Operational Research Societies (IFORS) c/o Operational Research Society, 62 Cannon Street, London EC4N 6AD, England.

- **WORLD CONFERENCE ON INFORMATICS IN GOVERNMENT;** Venice, Italy, October 16 - 20, 1972. Enquiries: Intergovernmental Bureau for Informatics - International Computation Centre (IBI-ICC), 23 Viale Civiltà del Lavoro, 00144 Rome, E.U.R., Italy.

### New IFAC Publications

**FLUIDICS 1971** - The complete sets of post-conference publications relative to the 2nd IFAC Symposium on Fluidics held in Prague, Czechoslovakia, June 28 to July 2, 1971, are now available. A set comprises the preprints of the papers with illustrations in one volume together with an appendix including the discussions, authors index, list of participants etc. The price for a set (191 pages, soft cover) is US \$ 20.00 and orders should be addressed to the Organizing Committee 2nd IFAC Symposium on Fluidics, Technická 4, Prague 6, Czechoslovakia.

**SPACE 1971** - Preprints of the 4th IFAC Symposium on Automatic Control in Space are still available and may be obtained at US \$ 30.00 per copy from the Yugoslav Committee for Electronics and Automation (ETAN), P.O.B. 356, Belgrade, Yugoslavia. The publication of the proceedings is in the hands of a Yugoslav publisher, and the availability of the proceedings with relevant details will be announced before long.