



# IFAC

# INFORMATION BULLETIN

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**International Federation  
of Automatic Control**

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*For immediate release*

### New Member of IFAC

With the admission of the

Iranian Society of Automatic  
Control Engineers (ISACE),  
P. O. Box 33/489,  
Tadjrish, Teheran, Iran,

IFAC now comprises 38 National Member Organizations.

### Test Case for the Comparison of Identification Methods

Based on the results of the contributions to the test case task at the 3rd IFAC Symposium on Identification and System Parameter Estimation, The Hague, Netherlands, June 1973, a further session on test cases for the comparison of different identification and parameter estimation methods will be arranged during the 1975 IFAC CONGRESS, BOSTON/CAMBRIDGE, Massachusetts, USA.

The test case task will be sent on request to interested authors. Please write to

IFAC/75 Secretariat,  
400 Stanwix Street,  
Pittsburgh, Pa. 15222, USA

or, authors in Europe, to

IFAC Secretariat,  
P. O. B. 1139,  
D-4000 Duesseldorf 1, FRG.

Authors who intend to submit a solution to the test case are asked to write to the IFAC/75 Secretariat Pittsburgh not later than March 1, 1975. Contributions to the test case task in form of a short paper may be submitted for publication in the Proceedings of the IFAC Congress, during the round table session or earlier. Their publication is subject to acceptance.

### 7th Automatic Control in Space

The 7th IFAC Symposium on Automatic Control in Space, sponsored by the IFAC Technical Committee on Space, will be held at Rottach-Egern (near Munich), FRG, May 17-21, 1976.

The Symposium will cover the following topics:

- Launch vehicles (Guidance navigation and attitude control)
- Satellites in earth orbit (attitude control and pointing, orbit control)
- Interplanetary space flight (attitude control and pointing, mission control, roving vehicles and manipulators)
- Manned space flight (rendez-vous and docking, guidance and navigation, and attitude control and pointing, mission control, systems control, support systems control)
- Application of space control methods and technology in other areas.

Authors are invited to submit abstracts (in English) indicating the problem considered, the progress with respect to the state of the art, the method of approach, applicational experience, and allocating the offered paper to one of the above symposium topics. Abstracts should also include the full title of the paper and the names of all authors. They should reach the

VDI/VDE-Gesellschaft für Mess- und  
Regelungstechnik,  
P. O. Box 1139,  
D-4000 Duesseldorf 1, FRG

not later than June 15, 1975. Requests for further details and any other relevant correspondence should be directed to the above address.

### 4th Identification and System Parameter Estimation

The fourth IFAC Symposium in a sequence will be held in Moscow, USSR, September 1976 under the auspices of the Academy of Sciences of the USSR and the USSR National Committee on Automatic Control.

The objective of the Symposium is to discuss recent advances in Theory and Application of the Methods for the Design of Models and System Parameter Estimation.

Papers are invited on:

- Methods for the identification and parameter estimation of control systems of different classes
- Selection of model structures
- Selection of identification techniques
- Observability, identifiability and state estimation
- Applications of identification and parameter estimation in the different industrial processes, biological and economic systems, aeronautics and astronautics.

Special attention will be given to papers applying identification methods to practical problems.

400 - 500 words abstracts (in five copies, English or Russian) should include the title, a short formulation of the problem, results (desirably with specific examples), author's particulars, and should reach

USSR 117806,  
The USSR National Committee on  
Automatic Control,  
81 Profsoyuznaya Str.,  
Moscow B-279, USSR

not later than March 10, 1975.



## Joint IFIP-IFAC Events in 1976

The following two IFIP-IFAC conferences are planned to be held in June 1976:

- 2nd COMPUTER APPLICATIONS IN THE AUTOMATION OF SHIPYARD OPERATION AND SHIP DESIGN (ICCAS '76), Gothenburg, Sweden, June 9 - 11, 1976. Enquiries: *Mr. Folke Borgström*, General Secretary, "ICCAS '76 Gothenburg", P. O. Box 8871, S-402 72 Gothenburg, Sweden.
- 3rd PROGRAMMING LANGUAGES FOR MACHINE TOOLS (PROLAMAT '76), Stirling, Scotland, June 15 - 18, 1976. Enquiries: *Mr. I. McNish*, Conference Secretary, National Engineering Laboratory, East Kilbride, Glasgow G75 0QU, Scotland.

## Non-IFAC Events

- Sponsored by the European Association for Microprocessing and Microprogramming (EUROMICRO) in collaboration with other international and national organizations, a Workshop on the MICROARCHITECTURE OF COMPUTER SYSTEMS will be held at Monte Carlo, Monaco, June 23 - 27, 1975. Scope: Microprogramming techniques and applications; Microprocessor design and technologies; Microcomputer applications; Configuration of systems based on microprocessors; Hardware-firmware-software trade-offs; Specialized architectures; High performance designs; New modules and structures; Description and simulation of architectures; Synchronization of multi-microprocessors; Theory of concurrent "micro" processes. A 200-word abstract and four double-spaced copies of the paper (not to exceed twenty pages) must be received by the Program Chairman (*Prof. R. W. Hartenstein*, Universität Karlsruhe, Institut für Informatik IV, 75 Karlsruhe, FRG) by December 15, 1974. Enquiries: *Prof. R. Zaks*, Organizing Committee Chairman, Université de Compiègne, B. P. 233, 60206 Compiègne, France.
- The INTERNATIONAL ELECTRONICS CONVENTION '75 will be held in Sydney, Australia, August 25 - 29, 1975. The convention, conducted by The Institution of Radio and Electronics Engineers, Australia, and accompanied by a trade exhibition, will be organized into a number of concurrent sessions with paper presentation by leading authorities to embrace the following fields of electronics: Computers and calculators; Electronics systems and control; Communications through fibre optics; Microelectronics; Health electronics; Navigational aids; Telecommunications; Educational electronics; Industrial electronics; Radio broadcasting, including frequency modulation; Television broadcasting, particularly colour T. V.; Electronics components; Audio/electroacoustics. Enquiries: The Institution of Radio and Electronics Engineers, Australia (I.R.E.E.), Science House, 157 Gloucester Street, Sydney, 2000, Australia.

## New IFAC Publications

- SYSTEMS ANALYSIS AND MODELLING APPROACHES IN ENVIRONMENT SYSTEMS; proceedings of the IFAC/UNESCO Workshop, Zakopane, Poland, September 1973; comprising 24 papers presented at sessions on general methodology, global modelling, ecological systems, pollution problems, natural resources, models of social systems as well as the records of two panel discussions on global modelling and on pollution problems and of a round table discussion devoted to the state of the art and on perspectives. Edited by *R. M. Dmowski*. English language, appx. 530 pages, illustrated. Price US \$ 10.00. Orders should be sent to: ARS Polona-Ruch, Krakowskie Przedmieście 7, 00-068 Warsaw, Poland. Payment should be made by check or money order to ARS Polona-Ruch A/C at the Bank Handlowy S.A., Warsaw. Add 10% postage for overseas countries and 5% postage for European countries.
- PRODUCTIVITY AND MAN; the main findings of the IFAC Workshop on Productivity and Man held by the IFAC Committee on Social Effects of Automation at Bad Boll, FRG, January 1974 are included in a book comprising survey and other papers either in full or in a condensed form, furthermore an interpretation of the main problems and also discussions. The book highlights the general problems of automation and its social consequences and prerequisites enabling the reader to follow all the argumentations even in areas which usually do not belong to his professional knowledge and interest. Edited by *P. A. Sprague* (Chairman, IFAC Committee on Social Effects of Automation) and *P. Schuh* (Committee Member) in cooperation with *F. Margulies* (Committee Vice-Chairman). Price US \$ 3. Orders should be sent to *Peter Schuh*, c/o RKW, Gutleutstr. 163, D 6000 Frankfurt, FRG.
- CONTROL IN POWER ELECTRONICS AND ELECTRICAL DRIVES; the proceedings of the IFAC Symposium held in Düsseldorf, October 7-9, 1974, contain 8 survey papers (authors: *J. Lagasse/R. Prajoux*, France; *W. McMurray*, USA; *H. Bühler*, Switzerland; *J. McTaggart*, UK; *I. Neuffer/F. Wesselak*, FRG; *F. Kövessi*, Hungary; *K. Heumann*, FRG; *E. Uhlmann*, Sweden) and 97 technical papers presented in sessions on the following topics: Theory of control systems employing electronic power converters; Controlled electronic power converters; Converter-fed AC- and DC-Motor drives; Applications of controlled drives; Applications in traction and electric ground transportation; Applications in special fields of static power conversion. Edited by *W. Leonhard*, TU Braunschweig, FRG. 1700 pages in 3 volumes. Price: DM 198.00 plus postage. Available from: VDI-Verlag GmbH, P. O. Box 1139, D-4000, Duesseldorf 1, FRG.