



INFORMATION BULLETIN

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International Federation of Automatic Control

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PRESS_RELEASE

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SECOND IFAC/IFIP INTERNATIONAL CONFERENCE ON DIGITAL COMPUTER APPLICATIONS TO PROCESS CONTROL

to be held in Menton, France

The Conference will neither be held in Nice nor in Cannes as indicated on page 1 of Bulletin no. 26, but in Menton (French Riviera) from 5 to 9 June, 1967. The Conference will be sponsored jointly by the International Federation of Automatic Control IFAC and by the International Federation for Information Processing IFIP as was the first one held in Stockholm, 21-23 September, 1964. The Conference will be organized by AFRA - Association Française de Régulation et d'Automatisme, the National Member Organization of IFAC.

Scope
The scope covers digital computers directly connected to and controlling the industrial processes listed in the Technical Programme.

However, the scope does not include computer uses associated with administrative and financial management of firms, nor computer uses for engineering design.

Several practical applications of optimization theory and direct digital control will be reported.

The Conference will comprise 32 papers to be given in 8 half-days. Each half-day will include 4 papers of about 30 minutes each followed by an hour of discussion.

The papers will describe installations in operation, report data from the operations, discuss system reliability, economic and quality improvements, installation, planning and implementation, personnel readjustments and social problems associated with application and use of digital control computers in industry.

Technical sessions will be as follows:

Thermal and Nuclear Power Stations and Power Systems, Iron and Steel Industry, Chemical and Petroleum Industries, Railway Transportation, Cement, Glass and Mining Applications, Applications of Theory in Optimizing Direct Digital Control (ddc)

Enquiries: Second International IFAC/IFIP Conference Secretary, Association Française de Régulation et d'Automatisme

5, rue de Liège, Paris (9^{me}), France.

2nd IFAC SYMPOSIUM "AUTOMATIC CONTROL IN SPACE"

On invitation of the Austrian Committee on Automation the IFAC-Committee on Space will hold its second Symposium on

"Automatic Control in Space"

in Vienna (Austria), September 4-8, 1967.

In pursuance of the aims of the first symposium at Stavanger (Norway) the following topics for original papers are proposed:

Space

Booster control, Guidance, Attitude control, Control with man in the loop, Propulsion system control, Navigation, Bionics applications, including navigation, Optimal trajectory determination, both orbital and interplanetary, Control of landing, on both solid surfaces and water, Automatic exploration systems, Medical monitoring and control, Digital computers applied to control problems.

Underwater

Control of movement of undersea vehicles: submersion, cruising, and on the bottom, Control of hydraulic resistance (including bionics - e.g., movement of fish), Navigation, Orientation and attitude control (including bionics), Propulsion control, including nuclear, Medical monitoring and control.

Underground

Control during penetration, Remote investigation of underground phenomena, including telemetering.

Emphasis will be laid on application to actual space problems and technical realization. Also review papers on Automatic control in specific systems and for Tutorial sessions are expected.

The papers ready for printing are expected until February 1, 1967 as deadline at the following addresses:

From US authors:

Dr. J.A. Aseltine, TRW Systems, Space Park Drive, Houston, Texas 77058, USA

From USSR authors:

Dr. J.G. Vasilyev, USSR Academy of Science, Kalanchevskaja ul. 15a, Moscow B-53, USSR

Authors from all other countries:

Austrian Productivity Center, Committee on Automation, POB 131, A - 1014 Vienna, Austria.

2nd IFAC SYMPOSIUM ON SYSTEM SENSITIVITY AND ADAPTIVITY

The Symposium will be organized by the Yugoslav Committee for Electronics and Automation (ETAN) under the sponsorship of the IFAC Theory Committee and will be held in Dubrovnik, Yugoslavia, at the end of August, 1968 (not 1967 as announced in Bulletin no. 26).

A formal Call for Papers will appear shortly in one of the next numbers of the IFAC Bulletin.

SYMPOSIUM ON THE USE OF DIGITAL COMPUTERS IN THE CONTROL OF PROCESSES, SYSTEMS, MACHINES

The subjects of the symposium to be held in June 1968 in Toronto, Canada, are as follows:

1. Performance of Installations

- Performance records and economic evaluation of installations of some maturity.
- b. Reliability records and techniques.
- Computer specifications and performance requirements. C.

2. Development of Structure of Control

- Design trends in the closure of control loops through a computer.
- Influence of optimizing and multi-variable control theory on the working structure of computercontrolled systems.

The intent of the symposium is to focus on the state of the use of on-line computers, and the translation of theory into practice.

Experts interested in the Symposium should contact:

Associate Committee on Automatic Control National Research Council Ottawa 2, CANADA.

THE FIRST ALL UNION SYMPOSIUM ON STATISTICAL PROBLEMS IN ENGINEERING CYBERNETICS

This Symposium will be held in Moscow on February 14-20,1967. under the chairmanship of Professor V.S. Pugachev with the following programme:

- 1. Systems optimal in the statistical meaning
- 2. Nonlinear problems of statistical dynamics
- 3. Design of controlled system mathematical models by means of statistical methods
- 4. Statistical dynamics of adaptive systems 5. Statistical theory of learning systems
- 6. Statistical methods of control
- 7. Statistical methods of reliability evaluation
- 8. Application of the statistical trial method for the simulation of control processes
- 9. Statistical problems of large systems (optimal distribution of resources, servicing of claims, etc.)
- 10. Devices for statistical information processing.

Some 200 papers from Soviet and foreign scientists have been submitted for the Symposium. The latter will be attended by 650 experts. Further particulars can be obtained from:

The Organizing Committee of the 1st All-Union Symposium on Statistical Problems in Engineering Cybernetics, Kalanchevskaja ul. 15a, Moscow B-53, USSR.

DEADLINES

HAIFA SYMPOSIUM ON COMPUTER CONTROL OF NATURAL RESOURCES AND PUBLIC UTILITIES

Further to IFAC Information Bulletin no. 29, the dates for the submission of abstracts and full papers have been

prolonged as follows: Abstracts: by January 15, 1967 Full Papers: by March 31, 1967.

IN MEMORIAM MAX AJNBINDER

IFAC has lost one of its most active pioneers in the person of Mr. Max Ajnbinder, suddenly deceased in Brussels, Belgium, on the 4th September, 1966 at the age of 67.

Even before IFAC has been formally founded, Mr. Ajnbinder was one of the 30 persons who signed, on September 27, 1956, in Heidelberg, Germany, a declaration recommending the foundation of an International Federation of Automatic Control.

The next year, in Paris, in September 1957, he was elected member of the Executive Council of IFAC by the first General Assembly of the Federation; he served in this capacity until 1959.

After the Congress in Moscow in 1960, Mr. Ajnbinder became Chairman of the IFAC Technical Committee on Bibliography until 1963. Since then, he served as Chairman of the Subcommittee on Technical Education.

The experience and advices of Mr. Ajnbinder will be missing in IFAC during years and his memory and example will stimulate the younger generations of the Federation.

NOTE FROM THE EDITOR

Since the last meeting of the Executive Council of IFAC in London, in June 1966, the undersigned is assisted, as Honorary Editor of IFAC, by Dr. Boris N. Naumov (USSR). Starting from January 1, 1967, he will be replaced by Mr. Derek H. Barlow (United Kingdom) who, together with Dr. Naumov, will assume in the future the duties of Honorary Editors of IFAC.

At the moment he resigns his duties in order to assume other ones in our Federation, the undersigned wishes to take leave of the readers of this Bulletin and to tell them all the pleasure he has had in serving as Honorary Editor of IFAC since the first issue of the IFAC Bulletin in April 1958. He also wishes to thank them for their continuing interest in this publication which has allowed the latter to exist for nearly 9 years and expresses his certitude that it will continue to be a success for long years.

V. Broida 1st Vice-President of IFAC