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Second IFAC Symposium on Identification and Process Parameter Estimation, 1970

The second IFAC Symposium on this subject, again to take place in Prague, will be held on the premises of the Czechoslovak Technical University from June 15 to 20, 1970. The last two days, June 19/20, are reserved for technical visits and cultural events. The symposium is organized by the Institute of Information Theory and Automation of the Czechoslovak Academy of Sciences and sponsored by the IFAC Technical Committee on Theory.

Apart from a survey paper on System Identification by K. J. Aström (Sweden) and P. Eykhoff (Netherlands), 72 technical papers by authors from 18 countries are included in the programme. A careful selection of the papers promises a presentation of the most recent results and findings in the subject area and of the future trends in development and research.

The conference language is English. The Russian language may be used for discussion contributions and translation facilities will be available.

Registration fee before April 1, 1970: US \$ 40, after that date: US \$ 45. The registration fee includes a set of preprints (in English) available prior to the symposium. The price for an extra set of preprints is US \$ 20.

A preliminary programme with registration and hotel accommodation forms may be obtained from:

Organizing Committee,
2nd Prague IFAC Symposium,
Institute of Information
Theory and Automation,
Vyšehradská 49,
Prague 2 /Czechoslovakia

Note: The main topics of the Symposium were listed in IFAC Bulletin No. 51, p. 2.

Second IFAC Symposium on Fluidics, 1971

In 1971, Prague will be the venue for the 2nd IFAC Symposium on Fluidics planned to be held from June 28 to July 2. It will be organized by the Centre for the Development of Automation and Computing Technique, Prague, and by the Department of Automatic Control of the Technical University of Prague under the sponsorship of the IFAC Technical Committee on Components.

Papers are invited on the following topics:

- Fluidic elements for automatic control
- Signal transfer in pure fluidic circuits
- Design of fluidic controllers for industrial processes
- Application of other physical phenomena for the increase of the effectiveness of fluidic systems.

Offers of papers together with two copies of an abstract (500 - 600 words, typewritten, single-spaced) should be submitted before July 31, 1970 to:

2nd IFAC Symposium on Fluidics,
Organizing Committee,
Technicka 4,
Prague 6 /Czechoslovakia.

Instrumentation and Automation in the Paper, Rubber and Plastics Industries, 1971

The interest aroused by the 1st International Conference on Automation in the P. R. P. - Industries held in Antwerp/Belgium 1966 has led to the planning of the IFAC Conference on P. R. P. -Automation which will be held in Brussels/Belgium, Centenary Halls, May 24 - 28, 1971 under the sponsorship of the IFAC Technical Committee on Applications. Co-sponsors are the International Measurement Corporation (IMEKO) and the European Federation of Chemical Engineering. The Royal Association of Flemish Engineers and the Belgian Institute for Control and Automation are the organizing local societies.

The Conference will be concerned with the problems on measuring and control techniques, which may arise in respect of pulp and paper making, manufacturing of non-woven fabrics, preparation and processing of raw materials for the plastics and rubber industries, plastics and rubber extrusion, coating, printing, etc.

It is anticipated that the following topics will be dealt with:

- Measurement of important process variables: temperature and pressure in extruders, temperature of sheets, wires and rolls, humidity speed and tension of material webs, consistency, viscosity, concentration, etc.
- On-line and off-line quality analysis of finished products and raw materials: web surface (fault

detection), basis weight, thickness, moisture, elasticity, opacity, brightness, colour, ash content, strength and roughness, etc.

- Process identification: instruments and techniques for process identification, case-studies.
- Advanced control techniques as applied to the various phases in the manufacturing of paper, rubber and plastics: multivariable control, feed-forward control, control of processes with a large dead-time, adaptive control, optimization, etc.
- Special and new components used in control loops: controllers, motors, valves, thyristor control units for AC motors, etc.
- Applications for digital and analog computers in the P.R.P. industry: description of working systems, reliability, economic aspects, software, interface equipment, man-machine communication, etc.
- Automation problems related to the "finishing" of the final product: calendering, coating, printing, cutting, sorting, winding, wrapping, packaging, etc.
- Problems related to the organization of the instrument department, personnel training and maintenance.

Papers are invited in these fields and offers with three copies of an abstract (20 - 30 lines) should be sent by April 30, 1970 to:

IFAC/PRP-Automation,
Jan van Rijswijklaan 58,
B - 2000 Antwerp/Belgium.

Conference languages are: English, French, German, Dutch (with simultaneous translation).

During the time of the Conference there will be an exhibition of instrumentation and control equipment as well as of processing machines for the use of the paper, rubber and plastics industries.

Fourth IFAC Space Symposium Dubrovnik, 1971

With the Third IFAC Symposium on Automatic Control in Space (Toulouse, March, 2-6, 1970) just being over, preparations for the Fourth Symposium in this field of rapid technological progress are already under way. The event will take place in Yugoslavia (Dubrovnik), September 6 - 10, 1971. The following topics are given on a preliminary basis and papers describing practical systems and applications will be given priority:

- Orbiting Space Stations
- Lunar Base Systems
- Guidance of Launchers and Boosters
- Control of the Space Vehicle and Orbits including Rendezvous and Docking
- The Control-System Hardware of Space Vehicles
- Information Processing and Software
- Environmental Control
- Automatic Control in Planetary Exploration

- Problems of man-machine Interaction in Space
- Problems of locomotion and manipulation in Space and on Planetary Surfaces
- Control of Underwater Systems.

Enquiries should be addressed to:

Prof. Dr. Raiko Tomovic
E. T. A. N.
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Belgrade/Yugoslavia.

Digital Computer Applications in Engineering Sciences in Turkey

This symposium will be held at the Istanbul Technical University, October 14-17, 1970 with the aim of providing an opportunity to study and investigate the computer programs, general purpose computer programs and program systems, and the new algorithms which are being developed for the solution of problems encountered in the engineering sciences.

The official languages of the symposium are Turkish and English. Simultaneous translation will be provided in both ways. The abstracts and papers should be submitted in English.

The latest date for the receipt of abstracts is April 1, 1970. Deadline for registrations: June 1, 1970.

Enquiries:

F. A. Akyüz
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Taskisla 114
Istanbul/Turkey

Publication of Spanish Symposium on Automation Industry

The Spanish Committee of IFAC (Via Layetana, 39, Barcelona 3) can supply a limited number of copies of the preprints of the Symposium held in Sitges, November 1969. Price Ptas. 1.500,- plus shipping expenses.

Reference: IFAC Bulletin No. 51, p. 2.

AICA-IFIP Conference on Hybrid Computation

The Conference, jointly organized by the Association Internationale pour le Calcul Analogique (AICA) and the International Federation for Information Processing (IFIP), will be held at the Technical University of Munich (Germany), from August 31 to September 4, 1970.

The conference will be concerned with computation and simulation utilizing a combination of analog with digital computers. Only original papers describing significant new work will be presented.

Conference languages: English, Russian, French or German; preference will be given to English.

Registration fee before April 15, 1970:

US \$ 45 (or DM 165,-). After that date:

US \$ 55 (or DM 200,-).

Enquiries:

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