



Automatic Control for Agriculture

The first IFAC Symposium in this field will take place at the University of Saskatchewan, Saskatoon, Canada, from June 18 to 20, 1974, under the auspices of the Associate Committee on Automatic Control, National Research Council of Canada, and the University of Saskatchewan. All sessions will be held on the University Campus where also accommodation will be provided in the new University residences at moderate package rates for lodging and meals in addition to downtown hotels at about 1 1/2 miles distance.

36 technical papers will be presented by authors from throughout the world in sessions on:

- Tractor design and guidance systems
- Instrumentation in agriculture
- Automation in irrigation and spraying
- Automation in agricultural production
- Automation in dairy and livestock production
- Harvest automation.

After the symposium, on Friday morning, June 21, demonstrations of instrumentation and automated control systems will be held and a tour of the Gardiner Dam, the largest earth filled dam in Canada, will be conducted.

Registration fee (incl. preprints) for delegates before May 1, 1974 is Can. \$ 30, after that date Can. \$ 35; for students (less preprints) Can. \$ 5.00. Check or money order made payable to "The University of Saskatchewan" in Canadian funds should be sent to

Dr. G. C. Zoerb,
Agricultural Engineering Dept.,
University of Saskatchewan,
Saskatoon, Sask., Canada.

From the same address may be obtained the Second Announcement and Preliminary Program with Registration and Accommodation Forms.

6th Automatic Control in Space

This IFAC Symposium will be held at Tsakhkadzor, Armenian SSR, USSR, from August 26 to 31, 1974. The International Programme Committee headed by the Chairman of the sponsoring IFAC Space Committee *B. N. Petrov*, USSR, and the two Vice-Chairmen *W. Haeussermann*, USA, and *J. Lagasse*, France, met in March and selected about 80 papers planned for presentation in sessions on:

- Space launch systems, planetary exploration, soft landing
- Attitude control, pointing control and precision
- Optimization methods, optimal filtering, control theory and systems
- Stabilization, simulation
- Satellite systems, docking and rendez-vous (actual systems), data processing
- Sensors, computers, effectors, power control
- Aerospace and reentry guidance and control
- Orbital control, navigation and guidance, rendez-vous methods
- Roving vehicles, walking systems
- Manipulators, teleoperators
- Underwater control
- Apollo-soyuz system
- Flexible systems and structures.

The programme will also include a number of survey papers by outstanding specialists.

Conference languages: English and Russian, simultaneous translation.

Preprints will be made available.

For registration and other details contact:

IFAC Symposium Organizing Committee
Institute of Control Sciences
81, Profsoyuznaya Str.
Moscow, USSR.

Traffic Control and Transportation Systems

The second IFAC Symposium in this field, cosponsored by IFIP (International Federation for Information Processing) and IFORS (International Federation of Operational Research Societies) and organized by AFCET (the French National Member Organization of IFAC) will be held from September 16 to 21, 1974, in Monte Carlo at the International Congress Center of Monaco, under the high patronage of S.A.S. Prince Rainier de Monaco.

The International Programme Committee (Chairman: *L. Guieysse*, France; Vice-Chairman: *J. Y. S. Luh*, USA) has selected almost 60 papers for presentation in sessions on:

- Urban traffic control
- Road and highway traffic control
- Bus control systems
- Transport and the community
- Urban transport systems on segregated tracks
- Air transport systems
- Modelling and decision aids
- Railway systems.

For immediate release

Each presentation will be followed by an open discussion.

Round Table Discussions are planned on:

- Goods transports
- Systems at large
- Reliability and safety
- Environment and transport.

Technical visits to various control centres in the local area and, after the symposium, to control centres in the Paris area will be arranged if sufficient interest (deadline for visit registrations: September 1, 1974).

An attractive ladies programme as well as a social programme will be offered.

Conference languages: English and French; simultaneous translation in both these languages.

Registration fee: F. F. 350.00; Preprints: F. F. 120.00.

A printed preliminary programme and registration forms will be available in May 1974 and can be obtained from:

AF CET,
Immeuble Centre Dauphine,
Avenue de Pologne,
75775 Paris Cédex 16, France.

3rd Multivariable Technological Systems

An announcement of this IFAC Symposium organized by the Institute of Measurement and Control under the aegis of the United Kingdom Automation Council and planned to be held in Manchester, UK, was published in IFAC Bulletin No. 79. The large number of good quality papers offered for presentation has made it desirable to extend the duration of the symposium by one day. Therefore, the originally scheduled days, from September 16 to 18, 1974 have been changed to September 16 to 19, 1974.

Non-IFAC Events

- MULTICRITERIA DECISION-MAKING, a seminar organized by the Department for Automation and Information of the International Centre for Mechanical Sciences (Centre International des Sciences Mécaniques - CISM) and sponsored by UNESCO. It will take place at the CISM in Udine, Italy, June 17 - 28, 1974. The programme of the first week, devoted to Theory, is mainly directed to system scientists and applied mathematicians, and of the second week, devoted to Applications, is directed to practical engineers, economists and social scientists. Foreseen lecturers: A. M. Letov, USSR, A. Charnes, USA, G. Leitmann, USA, J. Medanic, Yugoslavia, M. Salukvadze, USSR, W. Stadler, USA, P. L. Yu, USA, M. Volpato, Italy. Round Table Discussions will also be organized. Free admission to the seminar; preprints available to participants. Lodging in student hostels provided. Apply to: A. Marzollo, CISM, piazza Garibaldi 11, Udine, Italy.

- SYSTEMS THEORY AND APPLICATIONS in two one-week courses on the Fundamentals and on the Applications of Digital Signal Processing respectively. July 8 - 19, 1974, Lake George N.Y., USA. Enquiries: Rensselaer Polytechnic Institute, Office of Continuing Studies, Troy, N.Y. 12181, USA.

- N.A.T.O. Advanced Study Institute on the THEORY AND APPLICATION OF DIFFERENTIAL GAMES, University of Warwick, Coventry, England, August 27 - September 6, 1974. Organizing Committee: R. J. Elliott (Hull), L. Markus (Minnesota and Warwick), P. C. Parks (Warwick). Speakers include many well known experts in the field. The number of places is limited, early application is advised and should be not later than May 31, 1974. Applicants should be mathematicians or mathematical engineers interested in theoretical aspects of control systems and differential equations. Financial assistance for travel and subsistence for successful applicants from N.A.T.O. countries will be available. For further details and application forms write to: Professor P. C. Parks, Control Theory Centre, University of Warwick, Coventry CV4 7 AL, England.

- 2nd IFIP WORLD CONFERENCE "COMPUTERS IN EDUCATION", Marseille, France, September 1 - 5, 1975; held by the International Federation for Information Processing (IFIP) under the patronage of UNESCO, OECD et al. The conference programme will include the introduction of informatics into the teaching of different disciplines, the consideration of the use of the methods of informatics and the applications of computers to aid in the solution of the problems of education in developing countries and other aspects. Chairman of the Programme Committee: J. Hebenstreit, France. Deadline for paper submission: October 15, 1974. Interested authors are requested to indicate their intention of submitting a paper by July 15, 1974 (relevant tear-off form in Call for Papers available from AF CET). Contact address: AF CET, Université Paris IX - Dauphine, 75775 Paris-CEDEX 16.

Publications

- INTRODUCTION COURSE TO IDENTIFICATION METHODS by M. Cuénod and J.-L. Fatjo; Introduction by A. Kaufmann. The book gives a survey of different methods developed for the identification of the dynamic characteristics of systems, using records of the variations of the input and output of these systems, namely: Identification of systems subjected to variations known as a mathematically not defined function of time; Identification of systems subjected to stochastic function; Identification of systems using state variables. 256 pages, 16 x 24, 96 figures. Price F. F. 90.00. The book is written in French; published by Albin-Michel, Rue Huyghens 22, Paris 14e, France.
- PROCEEDINGS of the 1973 Canadian Conference on Automatic Control, University of New Brunswick, September 24 - 25, 1973, available at Can. \$ 12.00 incl. postage from the Electrical Engineering Department, The University of New Brunswick, Fredericton, N. B. Canada.