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Automatic Control in Space

At the invitation of the "Association Française de Cybernétique Economique et Technique" (AF CET) and the "Conseil d'Administration des Journées d'Electronique de Toulouse" (JET), the third IFAC Symposium on Automatic Control in Space will be held in Toulouse (France), March 2nd - 6th, 1970.

In pursuance of the aims of the first Symposium 1965 in Stavanger (Norway) and of the second 1967 in Vienna, the following topics for original papers are proposed :

- (1) Space vehicle systems
- (2) Trajectory control, including the problem of rendez-vous
- (3) Components of the space systems, and space digital computers
- (4) Environmental systems
- (5) Underwater and underground systems
- (6) Space navigation
- (7) Biological aspects of space travelling and control of human biological functions
- (8) "Man-machine" problems in space
- (9) Automatic steering of vehicles on the surface of the planets.

Authors willing to offer papers are kindly requested to submit abstracts (5 copies) not later than March 31st, 1969.

The abstracts should be of not more than two pages (300-600 words) of typewritten text in English, French or Russian. (Russian abstracts if possible accompanied by an English translation.)

Addresses to which abstracts should be sent are as follows:

From US authors: to Dr. J. A. Aseltine,
University of Southern California,
Electrical Engineering Dept., University Park,
Los Angeles - California, 90007, USA.

From USSR authors: to Dr. J. G. Vasiljev,
National Committee of Automatic Control,
Profsojuznaja 81, Moscow-V-485/USSR.

Authors from all other countries: to Prof. J. Lagasse,
Laboratoire d'Automatique et de ses Applications
Spaciales du CNRS, B.P. 4036, F-31 Toulouse 04, France.

General Enquiries:

Secretary for the Symposium,
Dipl.-Ing. H. Desmoutier,
B.P. 4036, F-31 Toulouse 04, France.

Education in the Automatic Control Field

IFAC was represented at the "International conference on the trends in the teaching and training of engineers" held by UNESCO in Paris from December 9 to 13, 1968.

As an illustration of a specific applied domaine relevant to curriculum design, there was an extensive discussion of the place of automation and automatic control. The importance of this as a practical area was recognized, and there was discussion as to the amount of such material which might profitably be included in various specializations.

The two IFAC contributions entitled "Les Tendances Actuelles de l'Enseignement de l'Automatique" by V. Broida (1st Vice-President of IFAC) in the French language, and "Education in Automatic Control at Universities" by W. Oppelt (Chairman of the IFAC Education Committee) in English and German are obtainable free of charge from the IFAC Secretary

Dr.-Ing. G. Ruppel,
Postfach 1139
D 4000 Düsseldorf 1/Germany.

Seminar on Organizational Systems

An International Summer Seminar dealing with the Theory of Organizational Systems will take place in Dubrovnik, Yugoslavia, from August 4 to 16, 1969, with the object of presenting advances in the theory of formal human organizations from the standpoint of management science, econometrics, systems theory and simulation. The provisional programme includes tutorial session subjects such as: Application of multilevel systems theory to structural problems in organizations; Theory of competitive systems; Control of industrial dynamics via simulation. Ample time will be provided for discussions.

Participation is limited and priority will be given to early registrants (\$ 100 before May 1 and \$ 120 after May 1, 1969).

For registration forms contact:

L. Radanović
Center of Advanced Studies,
P.O. Box 356,
Belgrade/Yugoslavia.

Automatica The Journal of IFAC

Beginning in January 1969 the journal AUTOMATICA is published bimonthly as the official Journal of IFAC. It will mainly feature a selection of the most significant papers of IFAC congresses and symposia and thus attempt to provide communication between various areas of interest in the area of automatic control, systems science, and cybernetics. The activities of IFAC will be illustrated by a wide variety of topics covered by the subjects of the papers. A number of associate editors from different countries will assist in selecting papers worthy of possible publication.

The Editor of the Journal Automatica is

G. S. Axelby,
Westinghouse Electric Corp.,
Aerospace Division,
Box 746, MS 452,
Baltimore, Maryland 21203, USA

An Editorial Board consisting of nine members is at present headed by Dr. Harold Chestnut, USA who is also the Chairman of the IFAC Technical Committee on Systems Engineering.

Apart from the chief object of publishing IFAC papers in a standard format, Automatica will occasionally feature a longer survey paper, and it will also include, wherever possible, brief reports about IFAC meetings as well as correspondence items and book reviews.

From the foregoing it should be noticed that this journal is not intended to replace any existing control journal, but rather it is intended that it will supplement the existing literature and provide information on control theory and practice provided by IFAC through its national member organizations. By publishing information about special topics discussed at various symposia, it is hoped that new control problems will be revealed and that directions for research will be suggested as well as some solutions to existing problems.

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New Symposium Publications

IFAC SYMPOSIUM ON AUTOMATIC CONTROL IN LIME, CEMENT AND CONNECTED INDUSTRIES, Brussels, Belgium, September 1968.

Main topics:

Processing of Raw Materials
Kiln Processing Problems
General Aspects and Implementation.

Proceedings (Vol.1: Texts of the 35 presented papers, thereof 14 in French, 11 in English, 10 in German. Vol.2: Discussions and certain modifications of texts of re-edited papers) at Fr.B.1 200,- (\$ 22,50, £ 9/8/-) for both volumes. Vol.1 is available, Vol.2 is in the press. Orders should be placed with: Institut Belge de Régulation et d'Automatisme (IBRA), 3 Rue Ravenstein, Brussels 1, Belgium.

IFAC SYMPOSIUM ON MULTIVARIABLE CONTROL SYSTEMS, Düsseldorf, Germany, October 1968.

Main topics:

- (1) General Theory - Linear Systems
- (2) General Theory - Nonlinear Systems
- (3) General Theory - Discrete and Relais Systems and Various Subjects
- (4) Optimization Theory - Continuous Systems
- (5) Optimization Theory - Discrete Systems
- (6) Optimization Theory - Computer Procedures belonging to Optimization
- (7) Signal and Filter Theory
- (8) Applications - Process Industries
- (9) Applications - Power Plants
- (10) General and Special Computer Procedures
- (11) Applications - Aerospace
- (12) Applications - Various Technical Fields.

Preprints are still available. The discussion volume is being prepared.

Enquiries:

VDI/VDE-Fachgruppe Regelungstechnik,
Postfach 1139,
D 4000 Düsseldorf 1/Germany.

IFAC SYMPOSIUM ON PULSE RATE AND PULSE NUMBER SIGNALS IN AUTOMATIC CONTROL, Budapest, Hungary, April 8 to 11, 1968.

Main topics:

Incremental Computing Systems
Digital Differential Analyzers
Controllers and Actuators
Analysis and Synthesis of Pulse Systems
Hybrid Systems
Data Transmission
Logic Elements.

Proceedings (65 discussion papers in the English, French or Russian language as well as survey papers, discussions, list of participants etc.) are published by the Hungarian National Committee of IFAC with the assistance of the Publishing House of the Hungarian Academy of Sciences, Akademiai Kiado. Orders should be placed with "Kultura", P.O.B. 149, Budapest 62, Hungary. The price of the Proceedings containing about 720 pages with 700 figures, is approximately \$ 52 (DM 208,-; sfr. 228,-; Rs 390,-).