



INFORMATION BULLETIN

No. 444 Jan. 8, 1968

International Federation of Automatic Control

Editors: Derek H. Barlow, London B. N. Naumov, Moscow Published by the IFAC Secretary
G. Ruppel, Düsseldorf
Postfach 1139 Germany

Press Release

4th IFAC Congress for Automatic Control

(Warsaw, 16th to 21st of June 1969)

Detailed Call for Papers

In November 1967 the Polish Organizing Committee of the 4th IFAC Congress had issued an "Announcement and Call for Papers" (see IFAC Information Bulletin No. 41 of Nov. 1st, 1967). Now a more detailed version of the Call for Papers is available from which we take the following information especially on the subjects which preferably should be dealt with by the authors.

In the field of THEORY:

Papers should contain some practical motivations of the problems being discussed. The authors should try to evaluate the practical importance of the expected or obtained results. The paper should deal, if possible, with modern problems promoting and stimulating new trends in applications.

In the field of APPLICATIONS:

Papers pertaining to control system design and/or implementation generally, unrestrictive of the industrial field, may refer to process dynamics; identification; simulation and modelling of processes; algorithms for on-line computer control; optimizing and adaptive control systems; multilevel and multilayer systems; systems reliability etc.

Each paper in this group, although being general in the sense that it will not be confined to a particular application in industry, should indicate the use for the algorithm, model, analysis, basic system or systemsdesign method being presented.

Besides papers dealing with general problems in the field of applications, other papers on systems design and operating performance in particular fields will be very valuable. As examples may be mentioned: power systems; chemical and petroleum industry; iron and steel industry; cement industry; paper industry; food industry; glass industry; manufacturing and materials handling; numerical control; computer control; motor control; traffic control; problems related to space control. Each paper in this group should present an evaluation of the project or system described.

Papers on other control applications or control aspects such as: bio- and medical engineering; automatic design; management information and control; economic and social consequences of automatic control, etc. should stress their relation to control engineering and the systems approach.

In the field of COMPONENTS:

Papers pertaining to control system components in general: standards and evaluation; dynamics of components; component reliability; components utilizing new physical phenomena; fluidics; bionic components; microminiaturization and integrated control components, etc.

Papers on components in particular categories: sensors; transmission elements and systems; information processing devices, control computers; actuators, etc.

Papers dealing with new approaches in components will be appreciated. Precise experimental data and/or clear theoretical analysis should support the presentation of these papers.

SUBMISSION OF PAPERS:

Titles and provisional abstracts of proposed papers should reach the Organizing Committee in Warsaw through the author's National Member Organization of IFAC by the end of February 1968; the full text of the paper by the end of June 1968. Instructions for authors may be obtained from National Member Organizations or from the Polish Committee and are strictly to be observed.

The address of the Polish Organizing Committee of the 4th IFAC Congress is:

NOT, Czackiego 3/5, P.O.B. 903, Warsaw 1 / Poland

Telegrams: NOT, Warszawa.

Digital Control Symposium, Toronto

This Symposium on "Digital Control of Large Industrial Systems" sponsored jointly by IFAC and IFIP will be held at the University of Toronto from June 17 to 19, 1968. Detailed information was published in Bulletin No. 43. The closing date for the submission of full papers (in final form according to the Instructions for

Authors, ready for printing) has been post-poned until January 31, 1968. Further information from:

> Secretary, IFAC/IFIP Symposium, Division of University Extension, 84, Queen's Park Toronto 5 / Canada.

Symposium on Hazard and Race Phenomena

The Institute of Mathematics of the Academy of the Socialist Republic of Rumania and the Computing Centre of the University of Bucharest and the Mathemati-cal Society of the Socialist Republic of Rumania are organizing a Symposium on Hazard and Race Phenomena in Switching Circuits. This Symposium is sponsored by the Subcommittee for Algebraic Theory of Relay Systems and Finite Automata of t Technical Committee on Theory of IFAC. The Symposium is planned to be held in Bucharest, Rumania from October 6 to 10. 1968. Papers are invited in the following subject areas:

- Classification of hazard and race phenomena in switching circuits, static hazard, dynamic hazard, multiple hazards, hazards in sequential operation, differences between the ideal, the actual and the step by step operation; - Hazard detection in switching circuits;
- Hazard-free circuits;

- The improvement of switching circuits by removing hazards;
- Use of tabular methods for avoiding hazards;
- Methods used in technics for avoiding hazards;
- Use of three-valued logics for the synthesis of switching circuits in actual operation;
- Use of many-valued logics in the study of switching circuits;
- Hazard phenomena in circuits with transistors or with other electronic devices; - Consequences of race phenomena in the
- operation of relays;
- Utilization of the theory of relations in the study of asynchronous operations;
- Other undesirable phenomena of the same type.

Prospective authors are requested to contact soonest Professor Gr. C. M o i s i l, Institutul de Matematica, str. Mihail Eminescu 47, București 9, Romania.