



IFAC

INFORMATION BULLETIN

No. **69** December 7, 1971

**International Federation
of Automatic Control**

Published by the IFAC Secretary
G. Ruppel · Postfach 1139
D 4000 Düsseldorf · Germany

This information is available for reproduction

The 5th Automatic Control World Congress

IFAC (International Federation of Automatic Control) will hold its 5th World Congress in Paris, under the high patronage of his excellency the President of the French Republic, at the UNESCO House, from the 12th to the 17th June 1972.

This congress is sponsored by U.A.T.I. (Union of International Engineering Organizations), it has been prepared and will be achieved with the active participation of:

- the International Association for Analog Computation (AICA),
- the International Astronautical Federation (IAF),
- the International Federation for Information Processing (IFIP),
- the International Federation of Operational Research Societies (IFORS),
- the International Measurement Confederation (IMEKO)

and its material organization is the responsibility of AFCET (Association Française pour la Cybernétique Economique et Technique), French National Member Organization of IFAC.

Out of the 590 discussion papers already pre-selected in their respective countries by its national member organization, IFAC has finally selected 218 papers which are coming from:

| | | | |
|---------------------|----|--------------|---|
| USSR | 49 | Sweden | 3 |
| USA | 48 | Australia | 2 |
| France | 18 | Austria | 2 |
| Japan | 16 | Bulgaria | 2 |
| U.K. | 16 | Italy | 2 |
| Germany (Fed. Rep.) | 10 | Switzerland | 2 |
| Canada | 9 | Belgium | 1 |
| Poland | 6 | Denmark | 1 |
| Germany (Dem. Rep.) | 5 | Finland | 1 |
| Norway | 5 | India | 1 |
| Yugoslavia | 5 | Netherlands | 1 |
| Czechoslovakia | 4 | South Africa | 1 |
| Hungary | 3 | Spain | 1 |
| Israel | 3 | U.A.R. | 1 |

These 218 papers are distributed amongst 41 Working Sessions respectively devoted to:

APPLICATIONS (85 papers, 16 sessions):
Petrochemical - steel shaping - cement - metals production - steam generation - nuclear plants - power systems (transmission and control) - process control, thermal - environment and ecology - software and modelling - numerical control - transportation - general applications - ship automation.

SPACE AND AVIATION (15 papers, 3 sessions).

CONTROL COMPONENTS (21 papers, 4 sessions):
Transducers in control circuits - processing components and systems - actuators, stepping motors.

EDUCATION (4 papers, 1 session):
Higher education in automatic control.

SYSTEMS (21 papers, 4 sessions):
Biological problems - industrial management systems - large scale systems analysis - national, regional and urban systems.

THEORY (72 papers, 13 sessions):
Regulator theory - large scale system theory - sensitivity - non linear systems - optimal control - optimization methods - linear systems - distributed and hereditary systems - adaptive systems - estimation and identification - discrete systems - differential games - stochastic systems.

Besides these 41 Working Sessions (comprising each a one-hour discussion), 12 Survey Sessions will be devoted to the following topics:

- economic justification of computer control systems
- changes in the world induced by technology
- trends in control components
- man-machine interface
- macro-economic systems
- biological receptors and their technical models
- device, design and description - a philosophy of computer-oriented technical information
- linear control systems
- trends in automatic control education
- transportation automation: present and future
- decomposition methods and decentralized systems
- interfacing devices.



Moreover, 9 Round Tables grouping each, in order to preserve their constructive features, some 50 experts of the debated problem, will be organized on the following topics:

- IFAC-CAS project
- standards and terminology
- education for systems science aspects in automatic control
- social implications of automation
- standardization of programming languages
- continuing education in automatic control
- relevance of theory
- control issues in transportation
- linear multivariable theory.

Numerous technical visits, a social programme and post-congress tours will complete this scientific programme.

It is obvious that the considerable broadness of the field of interest of this world congress as well as its definite orientation towards practical applications feature an unprecedented event in this very broad domain which will not fail to attract attendees from numerous countries, including the 37 countries having a membership in IFAC, and to facilitate fruitful contacts between experts from all over the world.

Early registrants will receive preprints of papers well ahead of the congress.

For any further information, please apply to:

AFCET - Immeuble Centre Dauphine,
Place du Maréchal de-Lattre-de-Tassigny,
75- Paris 16e, France.

As usual in the year of an IFAC Congress, there will be no IFAC symposium held in 1972.

Below are listed the countries which are invited to send a delegation to the IFAC Congress in 1972. The countries are listed in the following order:

- countries which have already sent delegations to the IFAC Congress in 1970
- countries which have already sent delegations to the IFAC Congress in 1968
- countries which have already sent delegations to the IFAC Congress in 1966
- countries which have already sent delegations to the IFAC Congress in 1964
- countries which have already sent delegations to the IFAC Congress in 1962
- countries which have already sent delegations to the IFAC Congress in 1960
- countries which have already sent delegations to the IFAC Congress in 1958
- countries which have already sent delegations to the IFAC Congress in 1956
- countries which have already sent delegations to the IFAC Congress in 1954
- countries which have already sent delegations to the IFAC Congress in 1952
- countries which have already sent delegations to the IFAC Congress in 1950
- countries which have already sent delegations to the IFAC Congress in 1948
- countries which have already sent delegations to the IFAC Congress in 1946
- countries which have already sent delegations to the IFAC Congress in 1944
- countries which have already sent delegations to the IFAC Congress in 1942
- countries which have already sent delegations to the IFAC Congress in 1940
- countries which have already sent delegations to the IFAC Congress in 1938
- countries which have already sent delegations to the IFAC Congress in 1936
- countries which have already sent delegations to the IFAC Congress in 1934
- countries which have already sent delegations to the IFAC Congress in 1932
- countries which have already sent delegations to the IFAC Congress in 1930
- countries which have already sent delegations to the IFAC Congress in 1928
- countries which have already sent delegations to the IFAC Congress in 1926
- countries which have already sent delegations to the IFAC Congress in 1924
- countries which have already sent delegations to the IFAC Congress in 1922
- countries which have already sent delegations to the IFAC Congress in 1920
- countries which have already sent delegations to the IFAC Congress in 1918
- countries which have already sent delegations to the IFAC Congress in 1916
- countries which have already sent delegations to the IFAC Congress in 1914
- countries which have already sent delegations to the IFAC Congress in 1912
- countries which have already sent delegations to the IFAC Congress in 1910
- countries which have already sent delegations to the IFAC Congress in 1908
- countries which have already sent delegations to the IFAC Congress in 1906
- countries which have already sent delegations to the IFAC Congress in 1904
- countries which have already sent delegations to the IFAC Congress in 1902
- countries which have already sent delegations to the IFAC Congress in 1900

| | |
|----------------|----|
| U.S.A. | 1 |
| Spain | 2 |
| South Africa | 3 |
| Yugoslavia | 4 |
| Germany (West) | 5 |
| India | 6 |
| Finland | 7 |
| Denmark | 8 |
| France | 9 |
| U.K. | 10 |
| Japan | 11 |
| Sweden | 12 |
| Switzerland | 13 |
| Italy | 14 |
| Belgium | 15 |
| Canada | 16 |
| Germany (East) | 17 |
| U.S.S.R. | 18 |
| Poland | 19 |
| Czechoslovakia | 20 |
| Hungary | 21 |
| Italy | 22 |
| U.S.S.R. | 23 |
| U.S.S.R. | 24 |
| U.S.S.R. | 25 |
| U.S.S.R. | 26 |
| U.S.S.R. | 27 |
| U.S.S.R. | 28 |
| U.S.S.R. | 29 |
| U.S.S.R. | 30 |
| U.S.S.R. | 31 |
| U.S.S.R. | 32 |
| U.S.S.R. | 33 |
| U.S.S.R. | 34 |
| U.S.S.R. | 35 |
| U.S.S.R. | 36 |
| U.S.S.R. | 37 |