1985 No. 2

FAC International Federation of Automatic Control

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Newsletter

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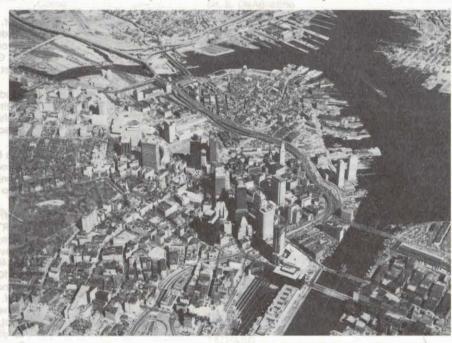
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Editor: Gusztáv Hencsey Layout: Margaret A. Gottfried published bimonthly IFAC Council and Related Meetings Boston, Mass., June 18—22, 1985



The American Automatic Control Council (AACC) invited IFAC to hold its annual meetings of Council, Boards and Committees in Boston, in conjunction with the 1985 American Control Conference to be held from June 19—21 at the Marriott Hotel Copley Place. On June 17—18 a pre-conference Workshop on Model Error Concepts and Compensation will be held at the same site, sponsored by IFAC, AACC and the IEEE Control Systems Society.

The Council and Related Meetings are scheduled according to IFAC traditions: On the first day, June 18, six of IFAC's. Technical Committees and the SECOM-Working Group on SWIIS (Supplemental Ways for Improving International Stability) will meet. For the following days, meetings

of the Technical Board, the Executive Board with its Standing Committees (Policy, Publications and Finance Committee) are scheduled as well as sessions of the Publications Managing Board and the Automatica Editorial Board. Last but not least, the IFAC Council will meet on June 22.

The International Program Comittee for IFAC's next World Congress in Munich, July 1987, will also gather for its first meeting in Boston on June 19.

Up to now, around 50 IFAC officers have announced their intention to participate in the Boston meetings which we hope will be a fruitful getting together, contributing to the development and success of IFAC's future activities.

The New IFAC Publication Policy

The two main activities by which IFAC is serving the world-wide community of control and systems engineers are: organizing technical meetings and publishing technical literature. The two are, of course, closely related: most of the technical papers published by IFAC are based on contributions presented at IFAC technical meetings.

The main objective of both activities is to disseminate high quality technical informa-

tion, to foster the exchange of ideas among engineers and scientists from many countries of the world. At the same time, however, those operations have to be economically solid. Financial responsibility for technical meetings rests with the organizing National Member Organizations of IFAC; financial considerations may sometimes slightly influence their decisions as to how many papers to accept. On the other hand, the management of publications is vested with

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FORTHCOMING EVENTS

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Title	1985	Place	Deadlines	Further Information
IFIP/IFAC Conference Programming Languages for Machine Tools (PROLAMAT)	June 11—13	Paris, F		AFCET 156, Bd. Pereire F-75017 Paris, France
IFAC Workshop Control Application of Nonlinear Programming and Optimization	June 11 — 14	Capri, I	OAR	Prof. G. Di Pillo Dipartimento di Informatica e Sistemistica Universita di Roma "La Sapienza" Via Eudossiana 18 I-00184 Rome, Italy
FAC Workshop Model Error Concepts and Compensation	June 17 — 18	Boston, MA, USA		Prof. R. E. Skelton Purdue University Aeronautics & Astronautics 331 Grissom Hall West Lafayette, IN 47907, USA
FAC/ISAGA Workshop Simulation and Games	June 24 — 26	Alma-Ata, SU		Acad. V. A. Trapeznikov Institute of Control Sciences Profsojuznaja 65 Moscow 117342, USSR
FIP/IFAC Symposium Automation for Safety in Shipping and Offshore Petroleum Operations - ASSOPO '85	June 25 — 27	Trondheim, N		The Norwegian Society of Automatic Control Kronprinsens gt. 17 Oslo 2, Norway
IFAC Symposium Automatic Control in Space	June 24 — 28	Toulouse, F		Prof. M. Pelegrin CERT Complexe Aérospatial de Lespinet 2, Avenue Edouard Belin BP 4025 F-31055 Toulouse Cedex France
7th IFAC/IFORS Symposium dentification and System Parameter Estimation	July 3—7	York, UK	om A novem	Prof. H. A. Barker University College of Swansea Dept. of Electrical and Electronic Engineering Singleton Park Swansea SA2 8PP, UK
FAC Symposium Automation for Mineral Resource Development	July 9—11	Brisbane, AUS	First Callett (2 Protesta Carpada V. Jacon - in - point Carpada - production of Carpada - production of Carpada - production of carpada	Prof. Alban J. Lynch Julius Kruttschnitt Mineral Research Centre University of Queensland Isles Road, Indooroopilly, QLD 4068 Australia
FAC Symposium Planning and Operation of Electric Energy Systems	July 22—25	Rio de Janeiro, BR	active district to w cope of the cope policies of the cope of the cope of the Coveral and p	T. E. DyLiacco Consultant 651 Radford Drive Cleveland, OH 44143 USA
Brd IFAC/IFIP Symposium Computer Aided Design in Control and Engineering Systems	July 31— Aug. 2	Copenhagen, DK	pribridadii balga A, v ii Crawiting waliomera sedi ma gabasi pe communicati	Prof. P. M. Larsen Electric Power Engineering Building 325 DK 2800 Lyngby, Denmark
FAC/IFORS Conference Control Science and Technology or Development	August 20 — 22	Beijing, PRC	Soft Francisco	Prof. Yan Xiaojun Research Institute of Automation for Machine-Building Industry De Sheng Men Wai Beijing, China
2nd IMACS/IFAC/WGMA nternational Symposium Systems Analysis and Simulation	Aug. 26—31	Berlin GDR	inimplisticam primite prigoti increate con primite del monte primite del monte primit	Organizing Committee 2nd Intern. Symposium on Systems Analysis and Simulation Central Institute of Cybernetics and Information Processes of the Academy of Sciences of the GDR P.O.B. 1298 DDR-1086 Berlin

FORTHCOMING EVENTS (ctd.)

Title	1985	Place	Deadlines	Further Information
2nd IFAC/IFIP/IFORS/IEA Conference Analysis, Design and Evaluation of Man-Machine Systems	Sept. 10 — 12	Varese,	an ning municipally and ning a	Prof. Dr. Ing. Gunnar Johannsen Laboratory for Man-Machine Systems (FB 15) University of Kassel (GhK) P.O. Box 10 13 80, D-3500 Kassel, FRG
7th IFAC/IFIP/IMACS Symposium Digital Computer Application to Process Control	Sept. 17—20	Vienna, A		Dr. P. Kopacek Ö P W Z Postfach 131 1014 Vienna, Austria
FAC Workshop (SWIIS) Co-operation for Handling World Complexity — Systems Approach	Sept. 24 — 26	London, UK	not yet known	Prof. M. Seaman City University Dept. of Systems Science London EC1V OHB, UK
th IFAC Workshop Safety of Computer Control Systems SAFECOMP '85)	Oct. 1—3	Como		Dr. E. DeAgostino Senior Research Engineer ENEA — Dip. Reattori Termici, CRE-Casaccia Via Anguillarese 301 I-00060 Rome, Italy
FAC/IFORS Symposium Systems Analysis Applied Water and Related Land Resources	Oct. 2-4	Lisbon, Portugal		Prof. Luis Valadares Tavares APDIO Av. Rovisco Pais 1000 Lisbon, Portugal
13th IFAC/IFIP Workshop Real Time Programming	Oct. 7—8	West Lafayette, Ind., USA		Prof. T. J. Williams Purdue Laboratory for Applied Industrial Control 334 Potter Center, Purdue Univ., West Lafayette, Ind. 47907, USA
FAC Workshop Adaptive Control in Chemical Processes	Oct. 21-22	Frankfurt FRG		H. Wiefels VDI/VDE GMR P.O. Box 1139 D-4000 Düsseldorf 1, FRG
FAC Symposium Robot Control	Nov. 6—8	Barcelona, E		Secretariat of SYROCO '85 Institute de Cibernètica Diagonal, 647 E-080828 Barcelona, Spain
IFAC Workshop Automatic Control in Petroleum, Petrochemical and Desalination Industries	Nov. 18—20	Kuwait	PEDÍO Allonos	Dr. Jaafar Assiri c/o Dr. Samir Kotob TED/ASD Kuwait Institute for Scientific Research P.O. Box 24885, Safat, Kuwait
IFAC Symposium Modelling and Control of Biotechnological Processes	Dec. 11 — 13	Noordwijker- hout, NL		Prof. Dr. A. Johnson Lab. voor Fysische Technologie Prins Bernhardlaan G 2628 BW Delft The Netherlands
Title	1986	Place	Deadlines	Further Information
IFAC Workshop + Reliability of Instrumentation Systems for Safeguarding and Control	April 22 — 24	The Hague, NL	of Appendix of the sale of the	Mr. J. P. Jansen Shell Intl. Petroleum Mij. Carel von Bylandtlaan 30 2596 HR Den Haag, NL
5th IFAC/IFIP/IMACS/IFORS Symposium Information Control Problems in Manufacturing Technology	April 22 — 25	Yerevan, SU	Whether the control of the control o	Organizing Committee of the 5th Symposium ICPMT 65, Profsojuznaja Str. Moscow, 117342, USSR
2nd IFAC Symposium Stochastic Control	May	Vilnjus, SU	June 15, 1985	USSR National Committee on Automatic Control 65, Profsojuznaja Str. Moscow, 117342, USSR
14th IFAC/IFIP Workshop Real Time Programming	May 25 — 27	Balaton, H	ALEX SOLD	Hungarian National Committee for IFAC Computer and Automation Institute, Kende u. 13—17 H-1502 Budapest, Hungary

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the IFAC Publications Managing Board and with the Editorial Board of Automatica. Royalties from publications contribute significantly to the income of IFAC, thus making it possible to keep the membership fees from the National Member Organizations at a reasonable level; the marketability of our publications is important from this point of view.

So far we have published both a Preprints and a Proceedings volume for our IFAC Symposia. The Preprints contain all the Symposium papers, are printed before the meeting, in soft bound, and are made available to the symposium participants. The Proceedings, published after the meeting, in hard bound, are the permanent records of the meeting, meant for libraries, institutions, etc. The preprints may be produced locally or by Pergamon Press. The Proceedings are always produced and published by Pergamon Press, the sole publisher of IFAC. So far the contents of the proceedings volumes have been basically the same as those of the Preprints.

IFAC has decided to modify this arrangement. According to the new scheme, the Proceedings will not be published as individual volumes but rather as a series and marketed like a journal (with yearly subscription). Besides, the Proceedings will not contain all the symposium papers, only a selection of them. This will improve the quality and reduce the volume of the Proceedings, both acting also towards better marketability. Of course, the Preprints will include all the accepted papers, just like before. The new scheme will apply to any IFAC Symposium/Conference taking place after January 1, 1985.

We intend to publish in the new Proceedings 70% to 80% of all the papers accepted for our Symposia. We will work with a yearly page budget, determined by the Publications Managing Board. This page budget will be divided among individual meetings by the Editor-in-Chief of the Proceedings, according to the number of accepted papers and their quality. Within the page budget assigned to a particular Symposium, it is the responsibility of the Symposium Editor to select, out of the papers accepted for the Symposium, the ones that will be published in the Proceedings.

The criteria for paper selection will be the usual ones:

- The technical quality of the paper, the novelty, relevance and soundness of the ideas/results described.
- The intelligibility of the paper, the way its ideas are explained and how it is written.
- The formal appearance of the paper, including typing, figures, and layout.

While the new scheme may cause some frustration to a number of authors, we do believe that in the long run IFAC and the technical community will enjoy the benefits of even better quality publications and the Federation also of an even sounder income. We hope that our contributors will understand and sympathize with these intentions and will look upon publication of their symposium paper in the Proceedings as a privilege rather than feeling discriminated against if this does not happen.

Of course, the relationship between IFAC Symposia and Automatica, the journal of IFAC, will not change with the new arrangements. Automatica will keep publishing the best symposium papers, however, this is and will remain a much narrower selection than that for the Proceedings. The papers will be subjected to a more thorough reviewing procedure and usually will appear in a substantially revised form.

Janos Gertler Editor-in-Chief IFAC Proceedings

IIASA Summer School

The International Institute for Applied Systems Analysis (IIASA) in Laxenburg, Austria, and some Italian Institutions (University of Calabria, CRAI) are organizing a Summer School on New Methods in Optimization Theory and Techniques in Cetraro, Italy, September 9—14, 1985. The Summer School is supported by IFAC's TC on Applications with Dr. L. Gerencser being designated to the IPC of this event.

Aims are to present advanced results both from theory and applications of nonlinear optimization. Emphasis will be focused on nondifferentiable and large-scale problems and on new computational techniques (e.g. parallel computation).

Deadline for application is May 15, 1985. For further information please contact

Prof. Lucio Grandinetti Dipartimento di Sistemi Universita della Calabria 87036 Arcavacata di Rende (Cosenza) — Italy

automatica

The Journal of IFAC the International Federation of Automatic Control

Papers from the Next Issue May 1985

Recent Trends in Feedback Design: An Overview

(P. V. Kokotovic)

Control of Reactive Power and Voltage in Emergencies

(J. Zaborszky, G. Huang, S. Y. Lin)

Adaptive Systems, Lack of Persistency of Excitation and Bursting Phenomena (B. D. O. Anderson)

Minimal Representations of Implicit Linear Systems

(J. D. Aplevich)

Optimal Output Feedback Design of Systems with III-Conditioned Dynamics (A. J. Calise, D. D. Moerder)

Estimation and Control of Large Sparse Systems

(M. Hodzic, D. D. Siljak)

Tracking Error Bounds of Adaptive Nonstationary Filtering (E. Eweda, O. Macchi)

Least-Squares State Estimation of Systems with State-Dependent Observation Noise (Y. Takeuchi, H. Akashi)

WHO IS WHO IN IFAC



Academician V. A. Trapeznikov IFAC Advisor

Vadim Aleksandrovich Trapeznikov was born in Moscow on November 28, 1905. In 1928 he graduated from the Moscow Technical School and joined the All-Union Electrotechnical Institute as an engineer. At the same time he started lecturing at the Moscow Power Institute and after having taken his Dr. Sci. (Engg) degree, he was granted the academic rank of a Professor. Since 1954 he has been a Head of Department at the Moscow Physico-Technical Institute. Since 1941 V. A. Trapeznikov has been with the Institute of Control Sciences (Automation and Remote Control); in 1951 he became director of this institute.

In 1953 he was elected Corresponding Member of the USSR Academy of Sciences and has been an Academician since 1960. He was awarded two State Prizes of the USSR and the Lenin Prize and is moreover an honorary member of the Hungarian and Czechoslovakian Academies of Sciences and of the Serbian Academy of Sciences and Arts.

While he remained director of the Institute, Prof. Trapeznikov was appointed First Deputy Chairman of the State Committee for Science and Technology of the USSR Council of Ministers in 1965.

V. A. Trapeznikov has authored more than 100 papers in the fields of design and analysis of electric machines and transformers as well as high speed automatic devices, aggregate automatic systems and control system modelling. Gradually his interests shifted towards studies of global control problems embracing not only large industrial plants, but also branches of industries and the entire national economy.

Being the Chairman of the USSR National Committee of Automatic Control, Academician Trapeznikov has been engaged for many years in the work of IFAC. As one of the founders of IFAC, he took part in the organisation of the first IFAC Congress in Moscow in 1960. He was in charge of the organisation of several international IFAC symposia in the USSR — the IV. International Symposium on Control System Identification and Parameter Estimation in Tbilisi in 1976, Computer-Aided Design in Baku 1980 and is at the moment preparing international IFAC symposia in the USSR for 1985 and 1986.

At the Kyoto congress in 1981 Academician Trapeznikov was appointed IFAC Advisor.