

## News

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## Sixth Prague Conference on Information Theory, Statistical Decision Functions, and Random Processes

is being organized by the Czechoslovak Academy of Sciences, Institute of Information Theory and Automation.

The Conference, dedicated to the tenth anniversary of the untimely death of Dr. A. Špaček, will be held in Prague from September 13 to 19, 1971.

Papers are invited in the following areas:

probability theory,  
information theory,  
statistical decision and control,  
stochastic processes,  
application of statistical methods.

Papers read or presented by title will be published in the Transactions of the Sixth Prague Conference.

For further information contact

*Organizing Committee —  
Sixth Prague Conference  
Institute of Information Theory  
and Automation  
Vyšehradská 49  
Praha 2 — Czechoslovakia*

### CALL FOR PAPERS

## IFIP Congress 71

*Ljubljana, 23—28 August, 1971*

The Fifth Congress of the International Federation for Information Processing will be held in the Sports Palace Tivoli, Ljubljana, Yugoslavia, on Monday through Saturday, August 23—28, 1971, at the invitation of the Yugoslav Federal Committee for Information Processing.

The main objectives of the Congress are to foster information exchange on accomplish-

ments and problems and to stimulate research in the activities encompassed by IFIP. In keeping with the practice established for IFIP Congresses the program will have two kinds of presentations:

a) Invited papers, consisting of one hour surveys of broad fields and half hour discussions of recent advances in topics of special interest.

b) Submitted papers, making up the largest part of the program, reporting on original work or new results in information processing.

As an aid in dealing with submissions, the Program Committee has set up seven major areas. For each area a list of topics is given. Contributions for the submitted part of the program on any of the topics listed, or on related topics falling within the range of interest of IFIP, are solicited. Papers should be strongly related to the design or use of computers.

### LIST OF CATEGORIES FOR CLASSIFICATION OF PAPERS

#### 1. Numerical mathematics

Approximation and Interpolation  
Numerical Methods in Algebra  
Numerical Methods in Analysis  
Numerical Optimization Methods  
Numerical Methods in Combinatorics  
Stability of Computation and Improperly  
Posed Problems

#### 2. Mathematical foundations of information processing

Theory of Algorithms and Automata  
Computational Complexity  
Formal Languages  
Computational Linguistics  
Mathematical Approaches to Design of Machines, Systems, and Languages  
Theoretical Treatments of Information Retrieval, Pattern Recognition, Artificial Intelligence

#### 3. Computer software

Programming Systems  
Programming Languages

- Interactive Systems  
 Operating Systems  
 Program—Program Interfaces  
 Data Management  
 Software Maintenance and Reliability
4. *Computer hardware and systems*
- New Concepts in Systems Architecture  
 Computer Networks and Communications  
 Storage Organization and Technology  
 Display and I/O Technology  
 Large-Scale Intergration Technology  
 Hybrid Systems
5. *Systems for management and administration*
- Concepts, Techniques, and Models  
 Methods and Languages for Modelling  
 Experiences from the Cybernetic Approach  
 Forecasting and Integrated Budgeting Procedures  
 Information Processing in Public Utilities  
 The Economy of Computer Investments  
 Applications of Information Systems  
 Specialized Business Functions
6. *Technological applications*
- Industrial Process Control  
 Automation of Scientific Experiments  
 Computer-Aided Design  
 Information Retrieval  
 Computer-Aided Editing and Type Setting  
 Computer-Aided Instruction
7. *Sciences and humanities*
- Models and Applications for:  
 Natural Sciences  
 Medical and Health Sciences  
 Social Sciences  
 Humanities  
 Arts

All the submitted papers will be referred. Each contributor should arrange for necessary company or security clearances before submitting his paper. Authors should forward seven copies of a 100-word abstract in English, along with four draft copies of the full text of the paper. The text should not exceed 3000 words, and should be typewritten, double-spaced, on one side of the sheet. The first

page must carry the following information:

- Title of the paper;  
 Name, country, affiliation and mailing address of the author(s);  
 Area of the paper according to the above classification of the IFIP Congress topics (only one should be given);  
 Language of oral presentation (English, French, Russian, or Spanish);  
 A statement of originality, e. g. a clear indication of the newness of the results or of the approach, and an assurance that the paper or no version close to it is being offered elsewhere for publication.  
 A full set of illustrations, properly keyed to the text, must be included with every copy, but the figures need not be in a finished form, suitable for reproduction.  
 Submissions should be directed not later than November 30, 1970, to one of the following address, whichever is most convenient:

Academician B. M. Glushkov  
 Chairman  
 IFIP Congress 71 Program Committee  
 Institute of Cybernetics  
 Ukrainian Academy of Sciences  
 Kiev — 28, U. S. S. R.

Professor C. C. Gotlieb  
 Vice-Chairman  
 IFIP Congress 71 Program Committee  
 Institute of Computer Science  
 University of Toronto  
 Toronto, Canada

Professor H. Zemanek  
 Vice-Chairman  
 IFIP Congress 71 Program Committee  
 IMB Laboratory Vienna  
 Parkring 10  
 A-1010 Wien 1, Austria

Authors will be notified of acceptance or rejection, and of recommended modifications by mid-March, 1971. The final copy of accepted papers, ready for publication, will be due by May 1, 1971.

The IFIP Exhibition 71, housed on Ljubljana Fair Grounds, 800 meters from the center of the town, will contain an international display of computers, peripheral equipment, and re-

lated devices. It is also planned to have a display of computer graphic and a performance of computer music during the Congress week.

The program and Exhibition of IFIP Congress 71 will offer a unique opportunity to acquire an up-to-the-minute view of computer products, design and applications.

*Program Committee*

(*V. M. Glushkov* — Chairman; *F. Genyys* — Advisor; *C. C. Gottlieb* — Vice-Chairman; *H. Zemanek* — Vice-Chairman; *J. H. Wilkinson*; *E. A. Feigenbaum*; *K. Samelson*; *W. Buchholz*; *T. H. Nielsen*; *A. D. Smirnov*; *Bl. Sendo*)

### 3. konferencia IFAC/IFIP o použití číslicových počítačů při řízení výrobných procesů

*Helsinki, 2.—5. juna 1971*

Medzinárodná federácia pre spracovanie informácií — IFIP v spolupráci s medzinárodnou federáciou pre automatické riadenie —

IFAC pripravuje konferenciu o použití číslicových počítačov pri riadení výrobných procesov.

Na programe sú referáty z týchto oblastí: chemický priemysel, rafinérie ropy, nerasty a hutníctvo — ocel, železo, hutnícke práce, valcovanie a príbuzné procesy, celulóza a papier, parné elektrárne, iné procesy a systémy.

Príspevky majú vychádzať z existujúceho použitia počítačov pre riadenie procesov, realizovaných v období pred začatím konferencie. Z prihlásených referátov sa budú uprednostňovať také, ktoré budú pojednávať o metodologických aspektoch, o aplikácii teórie riadenia na praktické problémy, o priamom riadení a optimalizácii pomocou počítačov a pod.

Konferenciu organizuje

Finnish Society of Automatic Control  
Finnish Organizing Committee (FOC)

a korešpondenciu adresujte na

3rd IFAC/IFIP Conference  
Box 10192, Helsinki 10, Finland.

Podrobné informácie poskytne sekretariát Čs. národného komitétu pre IFIP, Ústav technickej kybernetiky SAV, Dúbravská cesta, Bratislava.