

News

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Preliminary Announcement and Call for Papers

Prague Stochastics'98

August 23 – 28, 1998, Prague, Czech Republic

Joint Session of

6th Prague Symposium on Asymptotic Statistics, and

*13th Prague Conference on Information Theory, Statistical Decision Functions
and Random Processes*

The Conference is organized by the Department of Probability and Mathematical Statistics of the *Faculty of Mathematics and Physics* of Charles University and the Department of Stochastic Informatics of the *Institute of Information Theory and Automation* of Academy of Sciences of the Czech Republic under the Auspices of Rector of Charles University, President of Academy of Sciences of the Czech Republic, Rector of University of Economics, and under the Auspices of the Bernoulli Society for Mathematical Statistics and Probability, the Union of Czech Mathematicians and Physicists and the Czech Statistical Office.

The tradition of organizing international conferences on stochastics in Prague was established many years ago. The first *Prague Conference on Information Theory, Statistical Decision Functions and Random Processes* was initiated by Antonín Špaček in 1956, and since that year they have been organized as wide representative meetings of scientists coming from many countries all over the world, similarly to the *Prague Symposia on Asymptotic Statistics*, whose successful tradition was founded by Jaroslav Hájek in 1973.

There are several reasons why these two traditional conferences are organized as a joint session in 1998: the first and most natural one is that each of them should take place in 1998 following their respective periods of four and five years.

It is by happy coincidence that this is also the year of celebrations of the *650th Anniversary of Charles University*. The University of Prague was founded on April 7, 1348 by Charles IV, Holy Roman Emperor and King of Bohemia. Charles University has always been very important in life and history of the country in general; and many distinguished mathematicians and physicists, such as Tycho de Brahe, Johann Kepler, Bernard Bolzano, Ernst Mach, Albert Einstein and Rudolf Carnap, worked here in various historical periods.

The scientific programme will include invited lectures, contributed papers and poster sessions. It will be aimed at covering wide range of stochastics, with special emphasis on the topics of this lively field which have been pursued in Prague.

The *Proceedings* will be distributed on the Conference opening date. Selected papers will be published in special *Prague Stochastics'98* issues of renowned journals which will be chosen according to topics.

The *Programme Committee*, chaired by *Josef Štěpán*, consists of organizers of the sections. The list of the sections (in alphabetical order) and their organizers is given below:

- *Asymptotic statistics* — (*Marie Hušková*)
- *Econometrics – diagnostics and sensitivity* — (*Jan Ámos Víšek*)
- *Financial & insurance mathematics* — (*Petr Mandl*)
(organized jointly with Czech Society of Actuaries)
- *Non-parametric estimation and testing* — (*Jana Jurečková*)
- *Random fields and processes* — (*Martin Janžura*)
- *Statistical information theory* — (*Igor Vajda*)

- *Biomedical and environmental statistics* — (Jana Zvárová)
- *Stochastic Analysis* — (Bohdan Maslowski)
(organized jointly with Mathematical Institute of AS CR)
- *Stochastic programming* — (Jitka Dupačová) (co-sponsor: IFIP)
- *Stochastic geometry* — (Viktor Beněš)
- *Structured stochastic models* — (Radim Jiroušek)
- *Time series* — (Jiří Anděl)
- *Uncertainty modelling* — (Milan Mareš)

The Web page with updated information, possibility of registering electronically and downloading LaTeX template for the paper format has the following address:

<http://www.utia.cas.cz/stoch98.html>

Deadline to receiving contributed papers is *January 31, 1998*.

Further inquires and requests to more detailed information should be directed to:

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Fax: +420-2-668 4702
E-mail: stoch98@utia.cas.cz

Preliminary Announcement and Call for Papers

European Control Conference ECC'99

August, 31 — September, 3, 1999, Karlsruhe, Federal Republic of Germany

The European Control Conference is held under the auspices of the European Union Control Association (EUCA) in cooperation with IFAC and in collaboration with the IEEE Control Systems Society. This conference is organized every two years with the aim to stimulate contacts between specialists active in academic research and industrial development in the area of systems and control and to promote scientific exchange within the European Community and between Europe and other parts of the world.

The scope of the conference includes all aspects of systems and control ranging from fundamental research to all kinds of engineering applications and related established and advanced technologies.

In support of an enhanced industrial involvement in the further development and application of the theoretical foundations of control, and to the mutual benefit of both academia and industry, the European Control Conference promotes topics of high relevance to industry. ECC'99 encourages corresponding presentations which will be arranged into sector oriented Industry Packages. Industry Packages (e.g. robotics, processing, environment and biotechnology) will be scheduled as coherent time periods within ECC'99 enabling interested visitors to optimize the efficiency of their participation in the conference.

Topics:

1. *Linear Systems* — Analog/digital systems, identification, stochastic systems, predictive control, system theory, H -infinity, optimal control, modelling and simulation, stability, multivariate systems, order reduction, linear observers
2. *Nonlinear and Complex Systems* — Nonlinear decoupling, nonlinear modelling, nonlinear control, nonlinear observers, stability, complex control systems, chaotic systems, large scale systems
3. *Model-Based, Adaptive and Learning Control* — Self-organizing control, signal processing, estimation, filtering
4. *Robust and Variable Structure Control* — Sensitivity analysis, sensitivity synthesis
5. *Supervision, Fault Diagnosis and Fault Tolerant Control* — Supervising control, fault reconfiguration, fault detection and isolation
6. *Discrete Event and Hybrid Systems* — Digital/analog Systems, manufacturing
7. *Computational Intelligence* — Fuzzy systems, knowledge-based systems, numerical methods, qualitative modelling, evolutionary algorithms, neuro-fuzzy techniques, neural networks, genetic algorithms, artificial life, expert systems, computer control, computer vision, distributed systems, knowledge-based systems, logic control, real-time control, real-time software, qualitative control and supervision
8. *Biotechnological and Environmental Systems* — Modelling, analysis and control of biotechnical, biomedical and environmental systems
9. *Mechatronics and Robotics*
10. *Production* — Process control, chemical, pharmaceutical, metals, minerals, food, paper etc., power plants, power systems
11. *Transportation* — Aerospace, automotive control, rail, ship, traffic control
12. *Issues of Industrial Implementation* — Application aspects, case studies, CAE, control management, electromagnetic compatibility, maintenance and repair, man-machine interface, monitoring, quality control, validation
13. *Education* — Education and training, demonstrators and simulators, history and future of control
14. *Other Topics* — Emerging control technologies, communication and control, telecontrol, human factors, social, ecological and economic aspects, etc.

Instructions for authors and invited session proposers:

Papers — Prospective authors should submit 5 copies of a structured draft paper double spaced, 5 to 8 pages, A4 size, in English by October 1, 1998 to the conference secretariat. The cover page should contain: Title, affiliation, address, fax number, e-mail address and telephone number of each author, an abstract and a note whether the paper will be submitted as presentation in a lecture session or as poster presentation in a dialogue session.

The complete 2nd Announcement and Call for Papers may be obtained from:

ECC'99 Secretariat
 VDI/VDE-Gesellschaft Mess-
 und Automatisierungstechnik (GMA)
 POB 10 11 39
 D-40002 Duesseldorf/Germany
 Phone: +49 (0) 211/6214-226
 Fax: +49 (0) 211/6214-161
 e-mail: gma@vdi.de
 is retrievable under the following internet-address:
<http://hcm.uni-duisburg.de/mrt/home.htm>

Preliminary Announcement and Call for Papers

The 3rd IEEE European Workshop on
Computer-Intensive Methods in Control and Data Processing
Can We Beat the Curse of Dimensionality?

September 7-9, 1998, Prague, Czech Republic

The Workshop is organized by the Institute of Information Theory and Automation, Academy of Sciences of the Czech Republic, and School of Engineering & Information Sciences, University of Reading, U.K., with participation of the IEEE Control Systems Society.

The aim of this IEEE Workshop is to bring together researchers and practitioners working in academia, government and industry. Particular emphasis is placed on the "curse of dimensionality", i.e. the extreme dimensionality of computations connected with implementation of theoretically optimal mathematical procedures of inference and decision-making.

We plan to give a considerable space to invited lectures by leading specialists in various fields. The Workshop will further include several sessions of contributed papers, poster sessions and computer demonstrations.

Topics relevant to the Workshop include:

- Models of complex systems (neural networks, Bayesian networks, graphical models, non-parametric models)
- Techniques of uncertainty management (finite-dimensional estimation, nonlinear filtering, Markov chain Monte Carlo algorithms)
- Control design and optimization techniques (computational problems of control design, dynamic programming approximations, Monte Carlo sequential control, randomized algorithms of control design)
- Software and hardware issues (database management, data warehousing, massively parallel computing, distributed and network computing, data visualization)
- Real-life applications (analysis of massive data sets, complex modelling and optimization in engineering, economics, physics, biology etc.)

Deadline to receive extended abstracts (3 copies about 2 pages) is *February 15, 1998*.

Further enquires and requests to more detailed information should be directed to:

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There is also *Web page* dedicated to the Workshop:

http://www.utia.cas.cz/AS_dept/cmp98/first.html