

ESMTB Infoletter

December 2009



www.esmtb.org

Dear colleague

with this ESMTB Infoletter you receive information about conferences, workshops, schools and open positions. Please send relevant information to be included in the next ESMTB infoletter to info@esmtb.org.

Best regards, Andreas Deutsch
Dresden, 11th of December 2009

News

NEW ESMTB Website

It is our pleasure to announce our new ESMTB website. Feel free to have a look on the new structured design and the new features that are in detail:

- New lightweight design and structure
- Print, email, and pdf function on every page to store your information individually
- Reworked News area with RSS-Newsfeed function
- Complete new login area with access to payed memberships (incl. invoices), possibility to change your personal details/password and upcoming surveys and ballots
- Search function across the whole ESMTB website

To login into the internal area request a personal password under <http://www.esmtb.org/login>.

If you have any questions please send us an email.

<http://www.esmtb.org/>
<mailto:support@esmtb.org>

Conferences

9th International Conference on Operations Research at Colegio San Jerónimo de La Habana, Havana, Cuba

Date: 2010-02-22 to 2010-02-26

Topics

- Optimization: Linear, nonlinear, discrete, parametric, stochastic and global optimization.
- Probability and Statistics: Biostatistics, multivariate analysis, neural techniques for data mining, probability and stochastic processes, sampling, statistical inference, reliability.
- Mathematical Economics: Financial modeling, games theory; mathematical models for economic problems; microeconomic theory, portfolio problem.
- Numerical Analysis and Algorithms: Geometric computation, graph theory, meta-heuristics, neural networks, numerical linear algebra, numerical solution of differential and differential-algebraic equations.
- Multicriteria Decision Making: Decision support systems; multi-objective optimization, preference modeling.
- Systems and Control: Dynamical systems, optimal control; stability.
- Management Sciences: Banking and financing, logistics (routing, scheduling, inventory), marketing, operations research for development.
- Partial differential equations: Homogenization, Fluid Mechanics and Coastal Dynamics, Simulation and computer science, Mean Field Games, Coalitional equations, Control and inverse problems, Applications to Biology and Medicine

Scope

Although preferences have traditionally been in the listed main fields the organizers of the conference have found significant interest in promoting a broadened scope of preference handling with a series of multidisciplinary streams of sessions, for exchanging experiences between researchers facing similar questions, but coming from different fields. Therefore the scope of the conference is intentionally broad and addresses all aspects of understanding, modeling, computational handling, and applications on the listed topics. In particular, we welcome original contributions to these areas and contributions that provide cross-fertilization between these topics and interesting applications.

<mailto:sira@matcom.uh.cu>

NetSci 2010 - The International School and Conference on Network Science at Northeastern University in Cambridge and Boston, Massachusetts USA

Date: 2010-05-10 to 2010-05-14

Bringing together leading researchers, practitioners, and teachers in network science (including analysts, modelling experts, visualisation specialists, and others), NetSci fosters interdisciplinary communication and collaboration. The conference focuses on novel directions in networks research within the biological and environmental sciences, computer and information sciences, social sciences, finance and business.

The School part of the event (10-11 May) offers a series of tutorials and lectures, introducing tools and basic results from a variety of research areas of major interest for the study of complex networks. The School presents basic experimental and theoretical developments, as well as educate the research community on standard network databases, tools, and computational resources.

The Conference part of the event (12-14 May) is dedicated to talks presenting the latest results in the field and their applications in various disciplines.

<http://netsci2010.net/>

19th International Symposium on Mathematical Theory of Networks and Systems (MTNS 2010) at Budapest, Hungary

Date: 2010-07-05 to 2010-07-09

The 19th International Symposium on Mathematical Theory of Networks and Systems (MTNS 2010) will take place at ELTE University Congress Center, in Budapest, Hungary, between 5-9 July 2010.

The Symposium is hosted by Eötvös Loránd University (ELTE) and MTA SZTAKI (Computer and Automation Research Institute, Hungarian Academy of Sciences).

MTNS 2010 is a prime conference in the general area of mathematical systems theory. The symposium is interdisciplinary and attracts mathematicians, engineers and researchers working in any aspect of system theory and its applications. MTNS traditionally covers areas involving a wide range of research directions in mathematical systems, networks and control theory, with emphasis on new challenges and potential applications. A prime objective of the MTNS 2010 Symposium is to explore and present mathematics as a key technology for the 21st century.

The Symposium will cover 12 main areas:

- Biological Systems
- Communication Systems
- Computing
- Control and Systems Theory
- Cooperative Systems
- Economics and Systems Theory
- Hybrid Systems
- Mechanical Systems
- Networked Control
- Signal Processing
- Stochastic Systems
- Systems Inspired Mathematics

<http://www.conferences.hu/mtns2010/>
<mailto:mtns2010@conferences.hu>

2010 Summer Computer Simulation Conference (SCSC'10) at Ottawa, Canada

Date: 2010-07-11 to 2010-07-14

Come to Ottawa, Canada for SCSC 2010 to witness the 42nd edition of this leading conference in the field of Modeling and Simulation. SCSC10 is focused on basic and applied research in modeling and simulation. Modeling and Simulation is a very critical area for supporting Research and Development as well as competitiveness worldwide; new technologies are enabling new use of M&S and increasing its impact in new areas; SCSC provides an International Forum for presenting the State of the Art in the International Simulation Community as well as the Effectiveness of Simulation Experiences in World Businesses. Several topical perspectives will serve to illuminate the evolution of the modeling and simulation community. The purpose of the conference is to provide a forum for researchers and governmental and industrial investigators to exchange ideas and discuss developments in this growing field.

SCSC 2010 features varied tutorials, tracks and workshops. The conference focuses on modeling and simulation, tools, theory, methodologies and applications, providing a forum the latest R&D results in academia and industry.

In parallel with technical presentations, companies and research groups will be exhibiting their latest products.

Further increasing SCSC's application focus, SCSC10 is adding to the conference program a set of with panels, hot topic sessions and invited industrial sessions.

All submissions will be reviewed based on the draft full paper and/or extended abstract. The best contributed paper will be given an award. A selected group of full papers will be selected for possible publication in a special issue of the Simulation Journal (SCS). All papers will be published in the ACM Digital Library.

<http://www.dacya.ucm.es/jlrisco/SCSC10/doku.php?id=scsc>

Workshops

4. Workshop on Monte-Carlo-Methods at University of Heidelberg, Heidelberg, Germany

Date: 2010-01-15 to 2010-01-15

Main Topics:

- Biotechnology
- Biomedicine
- Biophysics
- Medical Physics
- Bio/Medical Statistics

Applications:

- Risk Analysis
- Radiation Treatment / Planning
- Monte-Carlo-Simulation of Time Series
- Modelling
- New Methods

The deadline for the submission of contributions is January 8th, 2010

Please send your contribution by email to vortrag (at) monte-carlo-workshop.de

Notification we be given January 11th, 2010

Deadline for participation is January 8th, 2010

<http://www.monte-carlo-workshop.com>

Schools

The Helsinki Summer School on Mathematical Ecology and Evolution 2010 at Linnasmäki Conference Centre in Turku, Finland

Date: 2010-08-22 to 2010-08-29

This is the second school of a biennial series of international summer schools on mathematical ecology and evolution in Finland, organised by the Biomathematics Group of the University of Helsinki. The school consists of graduate-level lectures on five topics at the research frontier, covering both subjects of mathematics outstandingly important in the field and subjects of biology of current interest.

The 2010 school will be held between 22 and 29 August 2010 in the Linnasmäki Conference Centre in Turku, Finland. The deadline for applications is 15 April 2010.

Topics and lecturers

- Evolutionary game theory: Karl Sigmund (University of Vienna)
- Bifurcation analysis: Yuri Kuznetsov (University of Utrecht)
- Stochastic differential equations: Carlos Braumann (University of Evora)
- Population genetics: Reinhard Bürger (University of Vienna)
- Stochastic models for epidemics: Tom Britton (University of Stockholm)

Program

The school will be a week of high-speed, concentrated effort where most of the time is allocated to lectures. In addition, round-table discussions will foster informal interaction between students and lecturers. At the beginning of the school, all students will introduce themselves briefly (2-3 minutes, 1 overhead sheet each) to help people of similar interests to find one another and engage in informal discussions.

Application

All PhD students and young researchers working in mathematical ecology/evolution can apply from all countries, especially from Europe and the Mediterranean. The school is organised primarily for PhD students of mathematics. We also welcome advanced undergraduates, postdocs, and biologists with sufficient background in mathematics.

Application is by email to petr.ondracek [funny character] helsinki.fi. The application should contain

- full contact data (name, affiliation, postal address, email address, phone and fax)
- a brief CV containing prior studies and/or positions
- a 1-paragraph description of scientific interest and motivation
- list of publications (if any)

The school can accept 40 students. The deadline for applications is 15 April 2010 and we shall notify all participants by 30 April. There is no fee for registration.

<http://wiki.helsinki.fi/display/huippu/mathbio2010>
<mailto:eva.kisdi@helsinki.fi>

Open Positions

Postdoc positions at Northeastern University, Department of Physics, Boston, USA

Deadline for applications: 2010-01-31

The Center for Complex Network Research (CCNR) at Northeastern University, Department of Physics, in the group of Professor László Barabási is looking for exceptional candidates to fill several postdoctoral positions. The group currently focuses on two main lines of research, involving systems biology and social networks. We are seeking candidates in each area. Our research on systems biology focuses on the properties of biological networks, with applications to metabolic modeling, flux balance methods, and human diseases. The research on social networks involves the study and modeling of extensive communication datasets.

RESPONSIBILITIES

Performs basic or applied research of a limited scope, primarily using existing theories and methods. Assists in initiating, executing, and completing clinical research and experiments. Assists the supervisor in the interpretation and publication of results and grants. Prepares and writes research papers, presentations, grant proposals, etc. Maintains the laboratory and may exercise functional supervision over supporting research staff. Primary responsibility is ensuring that the research is complete. The appointment generally does not extend beyond two years.

The ideal candidate will have a recent Ph.D., a background in biophysics, computational biology, statistical mechanics, data mining, statistics or related areas and experience in computational modeling and analysis. Candidates with a strong analytical background and interest in interdisciplinary research will be also given particular at-

tention. Experience with network theory is a plus, but not a requirement.

QUALIFICATIONS

Must have a Ph.D. or equivalent; be able to undertake substantially full-time research or scholarship; work under the supervision of a senior scholar. Strong analytical background and interest in interdisciplinary research including biophysics, computational biology, statistical mechanics, data mining, statistics and related areas and experience in computational modeling and analysis.

HOW TO APPLY

A completed application consists of an email containing (i) a current CV with publication list, (ii) a short statement of research experience and interests, and (iii) two letters of recommendations emailed separately by the writers to:

Trevor Gillaspay by e-mail, ccnrad@gmail.com, or mail to Northeastern University, 111 Dana/Department of Physics, 360 Huntington Avenue, Boston, MA 02115.

Northeastern University is an Equal Opportunity, Affirmative Action Educational Institution and Employer, Title IX University.

Please contact: [Trevor Gillaspay](mailto:Trevor.Gillaspay@northeastern.edu)

PhD Fellowships in Computational Biology and Scientific Computing at International Max Planck Research School for Computational Biology and Scientific Computing, Berlin, Germany

Deadline for applications: 2010-02-21

The International Max Planck Research School for Computational Biology and Scientific Computing, a joint graduate program of the Freie Universitaet Berlin and the Max Planck Institute for Molecular Genetics, Berlin, invites applications for a PhD program.

The PhD program is open for international students holding a Master (or equivalent) degree in bioinformatics, computer science, physics, mathematics, or biology.

The closing date for applications is February 21, 2010.

We would be grateful if you could communicate the announcement to interested students. A poster can be downloaded from <http://www.imprs-cbsc.mpg.de/download/poster2010.pdf>

For further details and the application procedure, please visit <http://www.imprs-cbsc.mpg.de>

Please contact:

<http://www.imprs-cbsc.mpg.de>