

ESMTB Infoletter

February 2010



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, 12th of February 2010

News

ESMTB supports AUTOMATA 2010 and SOLSTICE 2010

The ESMTB board is glad to give official support to AUTOMATA 2010 and SOLSTICE 2010.

Every ESMTB member interested in participating in the Workshop pays a reduction in the registration fee of 50 Euros for regular ESMTB members and 25 Euros for student ESMTB members.

<http://automata.loria.fr/>
<http://solstice.loria.fr/>

KEPLER AWARD for European Young Scientists (KEYS)

The European Academy of Sciences (EAS) announces an award for highly talented young scientists successfully working in European Universities or Research Institutions.

The award is granted to an international team of young scientists, selected in a competition for a workshop, planned and organized by the team and covering interdisciplinary topics chosen by the applicants in a field selected by EAS.

This award has the goal to stir the cooperation of young researchers in Europe interested in research crossing the borders of disciplines and states. By offering communication and cooperation with its members the interactions between generations is going to be enhanced.

Fellows will have the right and are expected to take part in scientific activities of the EAS.

http://www.esmtb.org/downloads/info/KEPLER_AWARD.pdf
<http://www.eurasc.org/>

Conferences

SSIC'2010 - 2nd summer solstice intl. conf. on discrete models of complex systems at Nancy, France

Date: 2010-06-16 to 2010-06-18

The meeting will be hold in the LORIA laboratory. It will be coupled with AUTOMATA '10, 16th intl. workshop on cellular automata & discrete complex systems. The two meetings are scheduled to run side by side and to have a common session.

Complex systems are pervasive in many fields of science and we encounter them everyday and everywhere in our life. Their examples include financial markets, highway transportation networks, telecommunication networks, human economies, social networks, immunological systems, ant colonies, ect. The key feature of a complex system is that it is composed of large number of interconnected and interacting entities exhibiting much richer dynamical properties on global scale than they could be inferred from the properties and behaviours of its individual entities. Complex systems are studied in many areas of natural sciences, social sciences, engineering and mathematical sciences. The integral part of these interdisciplinary studies forms discrete modeling. These models can be seen as the simplest laboratories to study phenomena exhibited by complex systems like self-organization processes, pattern

formation, cooperation, adaptation, competition, attractors, or multi-scaling phenomena. The objective of this conference is to bring researchers working on discrete modeling of complex systems and to provide a forum for exchange of ideas and presentation of results of their research.

Researchers and scientists working in the area of discrete modeling of complex systems will be invited to submit abstracts on their research to be presented at the conference. Of particular interest are approaches: cellular automata, lattice gas cellular automata, agent based simulation models, individually based simulation models, networks. Both theoretical and applied research is of interest. Accepted abstracts will be scheduled as talks or posters.

<http://solstice.loria.fr/>
<mailto:Nazim.Fates@loria.fr>

11th International Conference on Systems Biology at EICC, Edinburgh, Scotland

Date: 2010-10-10 to 2010-10-16

The 11th International Conference on Systems Biology continuing its annual series of conferences initiated by Hiroaki Kitano in Tokyo in 2000. Recent meetings were held in Yokohama 2006, in Long Beach 2007, Göteborg 2008 and Stanford, California 2009.

Scotlands scientists have been pioneers, their inventions and innovations transforming peoples lives around the world. Today, Scotland recognises the vital importance of international collaboration in modern science, and its scientists are at the heart of many strategic alliances.

Scotlands medical breakthroughs include the discovery of antibiotics, the production of Dolly the sheep, the discovery of the p53 tumour suppressor gene, Metabolic Control Analysis (a founding discipline for Systems Biology) and the development of magnetic resonance imaging.

The Conference will comprise of the following sessions:

- Applications in Medicine
- Functional Genomics and Biological Networks
- Computational Theory in Systems Biology

- The Spatial Dimension of Intracellular Dynamics
- Biomedical Simulations
- Understanding the Brain Function
- Computational Methods and Tools
- Cell Signalling Dynamics
- Systems Biology in Health and Disease 3
- Parameterising Proteomics
- Biological Rhythms
- Combinational Multi-Scale Systems
- Responses in Biology and Medicine
- Engineering Aspects in Systems Biology
- Systems Biology and Metabolism
- Systems Sciences Behind Medical Application in Industry
- Biological Noise and Cellular Decision Making

<http://www.icsb2010.org.uk>
<mailto:industry@icsb2010.org.uk>

Workshops

IB-PAS 2010 - 2010 International Workshop on Integrative Biological Pathway Analysis and Simulation at Bielefeld University, Germany

Date: 2010-05-17 to 2010-05-19

This Computational and Integrative Biology Workshop (IB-PAS) as a satellite meeting of the International Conference of Integrative Bioinformatics will be of interest for Bioinformatics, Molecular Biology and Molecular Medicine. The idea of this Workshop is to discuss methods, theoretical approaches or practical applications in the area of Integrative Pathway Analysis.

The main topics will be:

- Database integration
- Analysis of complex networks
- Molecular data warehouse
- Pathway prediction and analysis
- Molecular textmining
- Petri net simulation
- Visualization and animation
- Models for metabolic network analysis
- Virtual cell
- Pathway analysis for drug design
- Integrative microarray analysis
- Combined dry and wetlab studies

Important dates

15th March 2010: Extended abstract submission
 12th April 2010: Notification of acceptance
 1st May 2010: Camera ready extended abstract

<http://www.imbio.de/ibpas10/workshop/>
<mailto:ralf.hofestaedt@uni-bielefeld.de>

AUTOMATA'2010 - 16th intl. workshop on cellular automata & discrete complex systems at Nancy, France

Date: 2010-06-14 to 2010-06-16

AUTOMATA 2010 will be the sixteenth workshop in a series of events established in 1995 by members of the Working Group 1.5, subordinated to IFIP Technical Committee 1: Foundations of Computer Science.

AUTOMATA 2010 will host a meeting of WG 1.5 in the updated phase of the group, now denominated "Cellular Automata and Discrete Complex Systems", with the following attributions:

- To establish and maintain a permanent, international, multidisciplinary forum for the collaboration of researchers in the fields of Cellular Automata (CA) and Discrete Complex Systems (DCS).
- To provide a platform for presenting and discussing new ideas and results.
- To support the development of theory and applications of CA and DCS (e.g. parallel computing, physics, biology, and others) as long as fundamental aspects and their relations are concerned.
- To identify and study within an inter- and multidisciplinary context, the important fundamental aspects, concepts, notions and problems concerning CA and DCS.

Papers presenting original and unpublished research on all fundamental aspects of cellular automata and related discrete complex systems are sought. Topic of interest include (but are not limited to): Dynamics, Algebraic aspects, Complexity issues, Emergent properties, Formal language processing, Models of parallelism and distributed systems, Phenomenological descriptions, Scientific modeling and Practical applications.

Important Dates

- Paper Submission Deadline: March 31, 2010
- Author Notification: May 9, 2010
- Final Manuscript Due: May 23, 2010
- Short Paper Submission Deadline: May 23, 2010

<http://automata.loria.fr/>
<mailto:Nazim.Fates@loria.fr>

Schools

IB-PAS 2010 - 2010 International Summer School on Integrative Biological Pathway Analysis and Simulation at Bielefeld University, Germany

Date: 2010-05-17 to 2010-05-21

This Computational and Integrative Biology Summer School (IB-PAS) as a satellite meeting of the International Conference of Integrative Bioinformatics will be of interest for Bioinformatics, Molecular Biology and Molecular Medicine. The idea of this Summer School is to discuss methods, theoretical approaches or practical applications in the area of Integrative Pathway Analysis. Furthermore the Summer School will start with the International Workshop on Integrative Biological Pathway Analysis and Simulation.

The main topics will be:

- Database integration
- Analysis of complex networks
- Molecular data warehouse
- Visualization and animation
- Molecular textmining
- Petri net simulation

Important dates

1st April 2010: Submission of CV
 15th April 2010: Notification of acceptance

<http://www.imbio.de/ibpas10/summerschool/>
<mailto:hofestae@techfak.uni-bielefeld.de>

Open Positions

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 Universität 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 program will start in autumn 2010. Students who finish their Master by the end of September 2010 are highly welcome to apply.

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>