

CS2Bio'13

<http://cs2bio13.di.unito.it/>

4th Int. Workshop on Interactions between
Computer Science and Biology
6th of June 2013 - Florence, Italy

Affiliated to DisCoTec'13

We solicit contribution of original results from Mathematics, Physics, Complex Systems, and Computational Sciences, addressing both theoretical and applied work on the comprehension of biological behaviour.

Program Committee

- Luca Cardelli
- Erik de Vink
- Jasmin Fisher
- Paola Giannini
- Radu Grosu
- Jean Krivine
- Pietro Lio'
- Daniele Manini
- Emanuela Merelli (Co-chair)
- Paolo Milazzo
- Ion Petre
- Marco Pettini
- Christian Reidys
- David Safranek
- Luca Tesei
- Angelo Troina (Co-chair)
- Verena Wolf

Topics of interest include

Formal Biological Modelling: Formal methods for the representation of biological systems and their dynamics (rewrite systems, process calculi, graph grammars, hybrid systems, etc.); Theoretical links and comparisons between different formal models for the modelling of biological processes; Quantitative (probabilistic, timed, stochastic, etc.) languages and calculi; Spatial (geometrical, topological) languages and calculi; Prediction of biological behaviour from incomplete information; Model checking, abstract interpretation, type systems, etc.

Novel Computational Paradigms for Understanding Biological Complex Systems: Quantum information and life sciences; Geometry, algebraic and computational topology and biomathematics; Information processing and biomedicine; Statistical mechanics and biophysics.

Tools and Simulations: Modelling, analysis and simulation tools for systems biology; Emergence of properties in complex biological and medical systems; Tools for parallel, distributed, and multi-resolution simulation methods; Detailed biological case-studies.

Sponsor:



Topology Driven
Methods for Complex Systems



DISCO TEC'13
COMPLEX SYSTEMS
PROGRAMME

Systems Biology is a stimulating field of application for computer scientists and a promising resource for biologists. Aim of this workshop is to gather researchers interested in the **convergence of Computer and Life Sciences**.

Submission deadline

26 March 2013

Notification to authors

03 May 2013

Invited Speakers

Giuseppe Longo (ENS Paris, France)
Mario Rasetti (ISI Foundation, Italy)

Dissemination

Workshop proceedings: **Elsevier ENTCS**
Journal special issue: **Elsevier TCS**



© bugbog.com