Second International Conference on Algebraic Biology

AB'07

July 2-4, 2007, RISC, Castle of Hagenberg, Austria

http://www.risc.uni-linz.ac.at/conferences/ab2007/

Invited Speakers

Reinhard Laubenbacher, USA
Bud Mishra, USA
Gheorghe Paun, Romania

Conference Chairman

Hirokazu Anai, Japan
Bruno Buchberger, Austria
Hoon Hong, USA
Katsuhisa Horimoto, Japan

Program Chairs and Proceedings Editors

Hirokazu Anai, Japan
Katsuhisa Horimoto, Japan
Temur Kutsia, Austria

Program Committee

Tatsuya Akutsu, Japan
Hirokazu Anai, Japan
Armin Biere, Austria
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Luca Cardelli, UK
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Shinji Hara, Japan
Sepp Hochreiter, Austria
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Katsuhisa Horimoto, Japan
Hans Irschik, Austria
Erich Kaltofen, USA
Veikko Keränen, Finland
Temur Kutsia, Austria
James F. Lynch, USA
Manfred Minimair, USA
Enno Ohlebusch, Germany
Stanly Steinberg, USA
Bernd Sturmfels, USA
Carolyn L. Talcott, USA
Ashish Tiwari, USA
Jens Volkert, Austria
Dongming Wang, China/France
Kazuhiro Yokoyama, Japan
Ruriko Yoshida, USA

Aims and Scope

The Second International Conference on Algebraic Biology, AB'07, is an international forum to promote discussion and interaction between researchers who intend to apply symbolic computation—computer algebra and computational logic—to various issues in biology.

Applications of algebraic and logic methods in biology, addressing:

- molecular sequence analysis
- molecular structure analysis
- molecular evolution
- genomics
- proteomics
- gene regulation
- gene expression
- gene ontology
- network Inference
- mathematical modeling
- model identification
- system analysis and design
- system verification
- synthetic biological systems

and other problems in biology with symbolic methods including, but not restricted to:

- polynomial methods
- group theoretical methods
- rewriting methods
- automated reasoning methods
- automata methods
- formal language methods
- combinatoric methods
- symbolic-numeric algorithms (sequential, parallel, distributed, grid processing)

Submission

Authors are invited to submit original papers that have not been submitted for publication elsewhere. Submissions should be at most 15 pages including references, prepared in LaTeX and formatted according to the Springer llncs style. Submitted papers will be peer-reviewed, and the accepted papers will appear in the proceedings before the conference. Proceedeing will be published by Springer Verlag.

Dates

December 4, 2006:	Deadline for registration of abstracts.
December 11, 2006:	Deadline for submission of full papers.
March 5, 2007:	Notification of acceptance/rejection.
April 2, 2007:	Camera-ready paper submission.
July 2-4, 2007:	Conference.

Conference Venue

Research Institute for Symbolic Computation, Johannes Kepler University Linz.
Castle of Hagenberg, Austria.

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