

# Call for Papers: SAGA 2009

Fifth Symposium on Stochastic Algorithms,

Foundations and Applications, October 26 - 28, 2009

The Fifth Symposium on Stochastic Algorithms, Foundations and Applications will be held at Hokkaido University, Sapporo, Japan, during 26–28 October 2009. SAGA '09 offers the opportunity to present original research on the analysis, implementation, experimental evaluation and real-world application of stochastic algorithms. In particular, the focus of SAGA '09 is on new algorithmic ideas involving stochastic decisions and the design and evaluation of stochastic algorithms within realistic scenarios. Thus, the symposium wants to foster the co-operation between practitioners and theoreticians from this research area.

**Topics of Interest:** We invite submissions of original research papers (including significant work-in-progress and work identifying and exploring directions of future research) or state-of-the-art surveys are invited on all aspects of algorithms employing stochastic components, including, but not limited to:

- Stochastic algorithms in combinatorial optimization
- Randomized methods in Boolean functions analysis
- Stochastic local search methods
- Randomness and complexity
- Combinatorial nanoscience
- Memetic algorithms
- Stochastic algorithms in bioinformatics
- Machine learning methods
- Stochastic automata
- Evolvability and self-replication
- Average-case behaviour and experimental analysis
- Real-world applications
- Search-based software engineering

**Invited Talks.** Invited talks will be given by Werner Römisch (Humboldt University, Berlin) and Taisuke Sato (Tokyo Institute of Technology).

**Submissions.** Papers should be submitted electronically. Details are given at the SAGA 2009 web-page.

## Important Dates.

Submission deadline: June 6, 2009 (extended)

Notification of acceptance: July 8, 2009

Camera ready due: July 30, 2009

**Format.** Submissions should be no longer than 15 pages in the standard format for Springer's Lecture Notes in Computer Science series. The 15 page limit includes title, abstract, acknowledgments, references, illustrations and any other parts of the paper. Appendices bypassing the page limit are not allowed.

**Policy.** Each submitted paper will be reviewed by the members of the program committee and be judged on clarity, significance, and originality. *Joint submissions to other conferences with published proceedings are not allowed. Papers that have appeared in journals or other conferences are not appropriate for SAGA 2009.*

**Proceedings** will be published as a volume in the Lecture Notes in Computer Science series, Springer, and will be available at the conference.

## Conference Chair:

Thomas Zeugmann  
Hokkaido University, Japan

## Program Committee Chair:

Osamu Watanabe  
Tokyo Institute of Technology, Japan

## Program Committee:

Andreas Albrecht (Queen's University Belfast, Great Britain)  
Amihoud Amir (Bar-Ilan University, Israel)  
Artur Czumaj (University of Warwick, U.K.)  
Josep Diaz (Universitat Politècnica de Catalunya, Spain)  
Walter Gutjahr (University of Vienna, Austria)  
Juraj Hromkovic (ETH Zürich, Switzerland)  
Mitsunori Ogihara (University of Miami, USA)  
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Kunsoo Park (Seoul National University, Korea)  
Francesca Shearer (Queen's University Belfast, Great Britain)  
Paul Spirakis (University of Patras, Greece)  
Kathleen Steinhöfel (King's College London, U.K.)  
Masashi Sugiyama (Tokyo Institute of Technology, Japan)  
Masafumi Yamashita (Kyushu University, Japan)  
Thomas Zeugmann (Hokkaido University, Japan)

## Local Arrangement Chair:

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For any further information, please visit our

## Conference Homepage:

<http://www-alg.ist.hokudai.ac.jp/~thomas/SAGA09/saga09.html>

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