

Call for Papers

The 9th International Frontiers of Algorithmics Workshop

Guilin, China, July 3-5, 2015



Introduction

The 9th International Frontiers of Algorithmics Workshop (FAW 2015 <http://faw2015.csu.edu.cn>) will be held on July 3-5, 2015 at Guilin, China.

The 9th International Frontiers of Algorithmics Workshop (FAW 2015) will provide a focused forum on current trends of research on algorithms, discrete structures, operation research, combinatorial optimization and their applications, and will bring together international experts at the research frontiers in these areas to exchange ideas and to present significant new results.

Interesting new results in all areas of algorithmics, operation research and combinatorial optimization and their applications are welcome. In addition to theoretical work, we are also interested in results that report on experimental and applied research of general algorithmic interest. Special considerations will be given to algorithmic research that is motivated by real-world applications.

Typical, but not exclusive, topics of interest include:

- *Algorithms and data structures;*
- *Algorithmic game theory and incentive analysis;*
- *Approximation algorithms and online algorithms;*
- *Automata, languages, logic, and computability;*
- *Bioinformatics, computational biology and medicine, and biomedical applications;*
- *Biomedical imaging algorithms;*
- *Combinatorial optimization;*
- *Combinatorics and discrete structures related to algorithms and complexity;*
- *Communication networks and optimization;*
- *Complexity theory;*
- *Computational algebra, geometry, number theory, and statistics;*
- *Computational learning theory, knowledge discovery, and data mining;*
- *Cryptography, reliability, and security;*
- *Database theory, large databases, and natural language processing;*
- *Experimental algorithmic methodologies;*
- *Geometric information processing and communication;*
- *Graph algorithms and theory;*

- *Graph drawing and information visualization;*
- *Internet algorithms and protocols;*
- *Large graph algorithms and social network analysis;*
- *Optimization algorithms in economic and operations research;*
- *Parallel and distributed computing and multicore algorithms;*
- *Parameterized algorithms, heuristics, and analysis;*
- *Pattern recognition algorithms;*
- *Trustworthy algorithms and trustworthy software.*

Submission Guidelines and Publication Information

The submission deadline is **February 1, 2015 (*anywhere on Earth*)**. FAW 2015 will only accept electronic (PS or PDF) submissions. The submission webpage for FAW 2015 is:

<https://easychair.org/conferences/?conf=faw2015>

Only previously unpublished new results will be considered for publication. Papers that have already been published at another journal or conference with proceedings, or simultaneously submitted or accepted to another conference with proceedings will not be considered. A submission should not exceed 10 pages, excluding bibliography and appendices, formatted for letter-size paper using 11 point or larger font.

The proceedings of the Conference will be published by **Springer-Verlag** in the *Lecture Notes in Computer Science (LNCS)* series, and will be available for distribution at the conference.

Selected high quality papers will be invited to a special issue in the journal of *Theoretical Computer Science* and in the *Journal of Combinatorial Optimization*, respectively. The invited papers will go through the normal reviewing process.

Important Dates

Submission deadline:	February 1, 2015
Notification of acceptance:	March 10, 2015
Final version due:	April 10, 2015

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Naoki Katoh (Kyoto University, Japan)
Michael Langston (University of Tennessee, USA)
Guohui Lin (University of Alberta, Canada)
Tian Liu (Peking University, China)
Daniel Lokshstanov (University of California San Diego, USA)

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Venkatesh Raman	(Institute of Mathematical Sciences, India)
Ulrike Stege	(University of Victoria, Canada)
Xiaoming Sun	(Institute of Computing Technology, CAS, China)
Gerhard Woeginger	(Eindhoven University of Technology, Netherlands)
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Chee Yap (PC Co-chair)	(New York University, USA)
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