

Call for Papers

29th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms (AofA 2018)

Uppsala, Sweden, June 25–29, 2018

The 29th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms will be held in Uppsala, Sweden, June 25–29, 2018. The website of the event is

<http://www.math.uu.se/math.uu.se/departement-of-mathematics/AofA2018>.

Program Committee:

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Organization/Contact:

Cecilia Holmgren, Uppsala University, Sweden
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James Allen Fill, Johns Hopkins University, USA

Scope. Analysis of algorithms is a scientific basis for computation, providing a link between abstract algorithms and the performance characteristics of their implementations in the real world. The general effort to predict precisely the performance of algorithms has come to involve research in analytic combinatorics, the analysis of random discrete structures, asymptotic analysis, exact and limiting distributions, and other fields of inquiry in computer science, probability theory, and enumerative combinatorics. See <http://aofa.cs.purdue.edu/>.

We invite papers in

- analytic algorithmics and combinatorics,
- probabilistic analysis of algorithms,
- randomized algorithms.

We also welcome papers addressing problems such as: combinatorial algorithms, string searching and pattern matching, sublinear algorithms on massive data sets, network algorithms, graph algorithms, caching and memory hierarchies, indexing, data mining, data compression, coding and information theory, and computational finance. Papers are also welcome that address bridges to research in related fields such as statistical physics, computational biology, computational geometry, and simulation.

Keynote speakers (confimed):

Louigi Addario-Berry, McGill University, Canada
Béla Bollobás, Univ. of Cambridge, UK and Univ. of Memphis, USA
Karen Gunderson, University of Manitoba, Canada
Olle Häggström, Chalmers University of Technology, Sweden
Svante Janson, Uppsala University, Sweden
Mihyun Kang, Graz University of Technology, Austria
Mark Daniel Ward, Purdue University, USA

Flajolet Award Lecture:

Luc Devroye, McGill University, Canada

Submissions. We invite you to submit an extended abstract (12 pages) or a short abstract for a poster (2 pages) via the EasyChair system:

<https://easychair.org/conferences/?conf=aofa2018>.

The proceedings will be published electronically. Authors of selected accepted extended abstracts will be invited to submit full papers for peer review to a special issue (published circa late 2019) of *Algorithmica*.

Important dates:

Submission deadline: **February 8, 2018**
February 15, 2018

Notification: **April 8, 2018**

Final version: **May 8, 2018**

If you intend to submit a paper, please consider submitting a title and a short abstract early.