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 to be announced.

Program Committee:

Olivier Bodini, Paris 13, France
Michael Drmota, TU Vienna, Austria
James Allen Fill (chair), Johns Hopkins Univ., USA
Antoine Genintrini, Paris 6, France
Zbigniew Gołębiewski, Wrocław U. Sci. Tech., Poland
Cecilia Holmgren, Uppsala U., Sweden
Hsien-Kuei Hwang, Academic Sinica, Taiwan
Svante Linusson, KTH, Sweden
Manuel Lladser, U. Colorado, USA
Cécille Mailler, Univ. Bath, UK
Markus Nebel, TU Kaiserslautern, Germany
Ralph Neininger, Goethe-U Frankfurt, Germany
Daniel Panario, Carleton Univ., Canada
Bruno Salvy, INRIA Lyon, France
Robert Sedgewick, Princeton Univ., USA
Wojciech Szpankowski, Purdue Univ., USA
Stephan Wagner, Stellenbosch Univ., South Africa
Mark Daniel Ward, Purdue Univ., USA

Steering Committee:

Nicolas Broutin, INRIA Rocquencourt, France
Hsien-Kuei Hwang, Academia Sinica, Taiwan
Conrado Martinez, UPC Barcelona, Spain
Ralph Neininger, Goethe-U Frankfurt, Germany
Robert Sedgewick (chair), Princeton Univ., USA
Michèle Soria, Paris 6, France

Organization/Contact:

Cecilia Holmgren, Uppsala University, Sweden
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.

Confirmed keynote speakers:

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 papers will be invited to submit their contributions to a special issue in a leading journal (to be determined).

Important dates:

Submission deadline: **February 8, 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.