

Call for Papers

35th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms (AofA 2024)

Bath, UK, June 17–21, 2024

The 35th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms will be held in Bath, UK, June 17–21, 2024. The event website is <https://www.math.aau.at/AofA2024/>.

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 precisely predict 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 <https://www.math.aau.at/AofA/>.

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.

Important dates:

Submission deadline: **13 March 2024**

Notification: **28 April 2024**

Final version: **19 May 2024**

Submissions:

We invite you to submit an extended abstract of up to 12 pages (excluding references). Appendices can be included in addition to that. They will be read at the Program Committee's discretion, but cannot be included in the conference proceedings. Instructions for Authors can be found at

<https://www.math.aau.at/AofA2024/calls/>.

The proceedings will be published electronically in LIPIcs (Leibniz International Proceedings in Informatics).

Program Committee:

Cécile Mailler (chair), University of Bath, UK
Sebastian Wild (chair), University of Liverpool, UK
Frédérique Bassino, Université Sorbonne Paris Nord, France
Gabriel Berzunza, University of Liverpool, UK
Benjamin Doerr, École Polytechnique, France
Laura Eslava, UNAM, Mexico
Hsien-Kuei Hwang, Academia Sinica, Taiwan
Conrado Martinez, Universitat Politècnica de Catalunya, Spain
Steve Melczer, University of Waterloo, Canada
Ralph Neininger, Goethe-Universität Frankfurt, Germany
Cyril Nicaud, Université Gustave Eiffel, France
Pablo Rotondo, Université Gustave Eiffel, France
Fiona Skerman, Uppsala University, Sweden
Andrea Sportiello, Université Sorbonne Paris Nord, France
Benedikt Stuffer, TU Wien, Austria
Michael Wallner, TU Wien, Austria

Steering Committee:

Frédérique Bassino, Université Sorbonne Paris Nord, France
James Allen Fill, The Johns Hopkins University, MD, USA
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Bruno Salvy Chair, Inria and ENS de Lyon, France
Mark Daniel Ward, Purdue University, IN, USA

Organizing Committee:

Cécile Mailler, University of Bath
Sebastian Wild, University of Liverpool

Confirmed keynote speakers:

Alessandra Caraceni, Scuola Normale Superiore Pisa, Italy
Sylvie Corteel, CNRS and Université Paris Cité, France
Michael Drmota, TU Wien, Austria
Antoine Genitrini, Sorbonne Université, France
Leslie Goldberg, University of Oxford, UK
László Kozma, Freie Universität Berlin, Germany
Daniel Krenn, Paris Lodron University of Salzburg, Austria
Markus Lohrey, Universität Siegen, Germany
Thomas Sauerwald, University of Cambridge, UK