

RANDOM 2019

The 23rd International Conference on
Randomization and Computation
and

APPROX 2019

The 22nd International Conference on
Approximation Algorithms for
Combinatorial Optimization Problems

<http://randomconference.wordpress.com>

<http://approxconference.wordpress.com>

Sep 20-22, 2019

MIT, Cambridge MA

CFP - Call for papers

SCOPE

The 23rd International Workshop on Randomization and Computation (RANDOM'2019) and the 22nd International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX'2019) will be held on Sep 20-22, 2019 at MIT.

RANDOM'2019 focuses on applications of randomness to computational and combinatorial problems while APPROX'2019 focuses on algorithmic and complexity theoretic issues relevant to the development of efficient approximate solutions to computationally difficult problems.

TOPICS

Papers are solicited in all research areas related to randomization and approximation, including but not limited to:

RANDOM

- design and analysis of randomized algorithms
- randomized complexity theory
- pseudorandomness and derandomization
- random combinatorial structures
- random walks/Markov chains
- expander graphs and randomness extractors
- probabilistic proof systems
- random projections and embeddings
- error-correcting codes
- average-case analysis
- smoothed analysis
- property testing
- computational learning theory

APPROX

- approximation algorithms
- hardness of approximation
- small space, sub-linear time and streaming algorithms
- online algorithms
- approaches that go beyond worst-case analysis
- distributed and parallel approximation
- embeddings and metric space methods
- mathematical programming methods
- spectral methods
- combinatorial optimization
- algorithmic game theory, mechanism design and economics
- computational geometric problems
- approximate learning

IMPORTANT DATES

Submissions: May 3, 2019

Notifications: June 20, 2019

Camera ready: July 1, 2019

SUBMISSIONS

Abstract Format: Electronic submissions are solicited. Please consult the following servers:

For submission of APPROX papers: <http://www.easychair.org/conferences/?conf=approx2019>

For submission of RANDOM papers: <http://www.easychair.org/conferences/?conf=random2019>

Note: You will be asked to login using an EasyChair account. Directions on how to register for such an account are available at the submission servers (you may also have an old account from a previous conference submission).

The submission must be received by **15:00pm (PDT) of May 3, 2019** for your submission to be considered.

Submission Format: Submissions should start with the title of the paper, each author's name, affiliation, and e-mail address, followed by a one-paragraph summary of the results to be presented. This should then be followed by a technical exposition on single-spaced pages on letter-size paper, using reasonable margins, page numbers, and at least 11-point font. The first 10 pages should contain the main ideas and techniques used to achieve the results including motivation and a clear comparison with related work (not including the references). There is no page limit but any material beyond the first 10 pages will be read at the sole discretion of the program committee.

Simultaneous submission to other conferences with published proceedings is not allowed.

PROCEEDINGS

Accepted papers will be published in the online proceedings of the conference in the Leibniz International Proceedings in Informatics (LIPIcs) series, based at Schloss Dagstuhl. This guarantees perennial, free and easy electronic access, while the authors retain the rights over their work.

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