RANDOM 2020

The 24th International Conference on

Randomization and Computation

and

APPROX 2020

The 23rd International Conference on

Approximation Algorithms for

Combinatorial Optimization Problems

http://randomconference.wordpress.com
http://approxconference.wordpress.com

August 17-19, 2020

U. Washington, Seattle

CFP - Call for papers

SCOPE
The 24th International Workshop on Randomization and Computation (RANDOM 2020) and
the 23rd International Workshop on Approximation Algorithms for Combinatorial Optimization
Problems (APPROX 2020) will be held on August 17-19, 2020 at the University of Washington,
Seattle.

RANDOM 2020 focuses on applications of randomness to computational and combinatorial
problems while APPROX 2020 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: April 24, 2020
Notifications: June 11, 2020
Camera ready: June 22, 2020

SUBMISSIONS

Abstract Format: Electronic submissions are solicited. Please consult the following servers:
For submission of APPROX papers: http://www.easychair.org/conferences/?conf=approx2020

For submission of RANDOM papers: http://www.easychair.org/conferences/?conf=random2020
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 April 24, 2020** 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 except as explained below.

Dual submission with CCC 2020 for RANDOM 2020: The CCC 2020 notification deadline falls one week after the RANDOM conference deadline. We will allow submissions that are substantially similar to those submitted to CCC 2020 with the understanding that the authors will withdraw the RANDOM submission if the CCC submission is accepted. The authors will also have to declare such dual submissions through the submission server at the time of submission.

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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