RANDOM 2022  The 26th International Conference on Randomization and Computation and

APPROX 2022  The 25th International Conference on Approximation Algorithms for Combinatorial Optimization Problems

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

September 19-21, 2022
Online

CFP - Call for papers

SCOPE
The 26th International Workshop on Randomization and Computation (RANDOM 2022) and the 25th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2022) will be held online from September 19-21, 2022.

RANDOM 2022 focuses on applications of randomness to computational and combinatorial problems while APPROX 2022 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 4, 2022
Notifications: June 24, 2022
Camera ready: July 15, 2022
SUBMISSIONS
Abstract Format: Electronic submissions are solicited. Please consult the following servers:
For submission of APPROX papers: https://easychair.org/my/conference?conf=approx2022
For submission of RANDOM papers: https://easychair.org/my/conference?conf=random2022
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 **18:00 (EST) of May 4, 2022** 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 1-2 paragraph abstract summarizing the paper's contributions. This
should be followed by a technical exposition on single-spaced, single-column pages, letter-size paper,
using page numbers, at least 1-inch margins all around, and at least 11-point font. The first 10 pages
should contain a clear presentation of the main technical and conceptual ideas underlying the results,
including the motivation behind the paper and a clear comparison with related work (not including the
references). The submission should be accessible to a wide variety of researchers in theoretical computer
science and discrete mathematics. 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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