RANDOM 2021  The 25th International Conference on 
Randomization and Computation 
and 

APPROX 2021  The 24th International Conference on 
Approximation Algorithms for 
Combinatorial Optimization Problems

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

August 16-18, 2021
Online

CFP - Call for papers

SCOPE
The 25th International Workshop on Randomization and Computation (RANDOM 2021) and 
the 24th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems 
(APPROX 2021) will be held online on August 16-18, 2021.

RANDOM 2021 focuses on applications of randomness to computational and combinatorial problems 
while APPROX 2021 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, 2021
Notifications: June 23, 2021
Camera ready: July 12, 2021
**SUBMISSIONS**

Abstract Format: Electronic submissions are solicited. Please consult the following servers:
For submission of APPROX papers: [https://easychair.org/my/conference?conf=approx2021](https://easychair.org/my/conference?conf=approx2021)
For submission of RANDOM papers: [https://easychair.org/my/conference?conf=random2021](https://easychair.org/my/conference?conf=random2021)
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 **15:00 (PDT) of May 4, 2021** 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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