

APPROX 2011 and RANDOM 2011

14th Intl. Workshop on Approximation Algorithms for Combinatorial Optimization Problems - APPROX 2011
15th Intl. Workshop on Randomization and Computation - RANDOM 2011

<http://cui.unige.ch/tcs/random-approx/>

Aug. 17-19, 2011

Princeton University

Call for papers

SCOPE

14th Intl. Workshop on Approximation Algorithms for Combinatorial Optimization Problems - APPROX 2011

15th Intl. Workshop on Randomization and Computation - RANDOM 2011

The 14th. International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX'2011), and the 15th. International Workshop on Randomization and Computation (RANDOM'2011) will be held in 17-19 August 2011 at Princeton University.

APPROX'2011 focuses on algorithmic and complexity theoretic issues relevant to the development of efficient approximate solutions to computationally difficult problems, while RANDOM'2011 focus on applications of randomness to computational and combinatorial problems. RANDOM'2011 is the fifteenth workshop in the series; APPROX'2011 is the fourteenth in the series.

TOPICS

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

APPROX

- design and analysis of approximation algorithms
- hardness of approximation
- small space, sub-linear time, and streaming algorithms
- embeddings and metric space methods
- mathematical programming methods
- combinatorial problems in graphs and networks
- game theory, markets, and economic applications
- geometric problems
- packing, covering, and scheduling
- approximate learning
- other applications

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
- property testing
- computational learning theory

SUBMISSIONS

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

For submission of APPROX papers:

<http://www.easychair.org/conferences/?conf=approx11>

For submission of RANDOM papers:

<http://www.easychair.org/conferences/?conf=random11>

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 17:00pm (PDT) of April 15 for your submission to be considered.

Abstract Format: Authors should submit an extended abstract (not a full paper). An abstract 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 of the main ideas and techniques used to achieve these results including motivation and a clear comparison with related work.

The abstract should not exceed 10 single-spaced pages on letter-size paper, using reasonable margins and at least 11-point font (not including the references). If the authors believe that more details are essential to substantiate the main claims of the paper, they may include a clearly marked appendix that will be read at the discretion of the program committee.

Simultaneous submission

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

PROCEEDINGS

Proceedings will be published in the Springer-Verlag series Lecture Notes in Computer Science.

Previous proceedings of APPROX appeared as LNCS 1444, 1671, 1913, 2129, 2462, 2764, 3122, 3624, 4110 and 4627 while previous proceedings of RANDOM appeared as LNCS 1269, 1518, 1671, 2129, 2483, 2764, 3122, 3624, 4110, 4627 and as Proceedings in Informatics 8.

IMPORTANT DATES

Submissions: April 15

Notifications: June 8

Camera ready: June 17

PROGRAM COMMITTEES

Approx

Julia Chuzoy, Toyota Technological Institute at Chicago

Naveen Garg, IIT Delhi

Michel Goemans, MIT

Fabrizio Grandoni, University of Roma - Tor Vergata

Anupam Gupta, Carnegie Mellon University

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Allan Sly, Microsoft Research
Eli Upfal, Brown University
Juan Vera, University of Tilburg
Osamu Watanabe, Tokyo Institute of Technology
David Zuckerman, University of Texas

PROGRAM CHAIRS

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Leslie Goldberg, University of Liverpool

Workshop Chairs

Jose Rolim, University of Geneva
Klaus Jansen, University of Kiel

CONFERENCE WEB PAGE

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