

APPROX 2014 and RANDOM 2014

17th Intl. Workshop on Approximation Algorithms for
Combinatorial Optimization Problems - APPROX 2014

&

18th Intl. Workshop on Randomization and Computation - RANDOM
2014

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

Sep. 4-6, 2014

UPC, Barcelona

Call for papers

SCOPE

17th Intl. Workshop on Approximation Algorithms for
Combinatorial Optimization Problems - APPROX 2014

18th Intl. Workshop on Randomization and Computation - RANDOM
2014

The 17th. International Workshop on Approximation Algorithms
for Combinatorial Optimization Problems (APPROX'2014), and
the 18th. International Workshop on Randomization and
Computation (RANDOM'2014) will be held in 4-6 September 2014
at Barcelona.

APPROX'2014 focuses on algorithmic and complexity theoretic
issues relevant to the development of efficient approximate
solutions to computationally difficult problems, while
RANDOM'2014 focus on applications of randomness to
computational and combinatorial problems. RANDOM'2014 is the
eighteenth workshop in the series; APPROX'2014 is the
seventeenth 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
- algorithmic game theory and economics
- computational geometric problems
- approximate learning
- online algorithms
- approaches that go beyond worst case analysis
- 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=approx2014>

For submission of RANDOM papers:

<http://www.easychair.org/conferences/?conf=random2014>

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 17 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 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. Further detail will be available early January at the conference website.

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 17th, Thursday

Notifications: June 6th, Friday

Camera ready: June 20th, Friday

PROGRAM COMMITTEES

Approx

Niv Buchbinder - Tel-Aviv University
Deeparnab Chakrabarty - Microsoft Research, India
Siu On Chan - Microsoft Research, New England
Shuchi Chawla - University of Wisconsin
Eden Chlamtac - Ben Gurion University
Nikhil Devanur (Chair) - Microsoft Research, Redmond
Alina Ene - Princeton University
Konstantinos Georgiou - University of Waterloo
Telikepalli Kavitha - Indian Institute of Science, Bangalore
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Jochen Koenemann - University of Waterloo
Amit Kumar - Indian Institute of Technology, New Delhi
Konstantin Makarychev - Microsoft Research, Redmond
Debmalya Panigrahi - Duke University
Thomas Rothvoss - Massachusetts Institute of Technology
Barna Saha - AT&T Shannon Research Laboratory, New Jersey
Bruce Shepherd - McGill University
Aravind Srinivasan - University of Maryland
David Williamson - Cornell University

Random

Louigi Addario-Berry - McGill University, Canada
Nayantara Bhatnagar - University of Delaware
Amin Coja-Oghlan - Goethe University, Germany
David Galvin - University of Notre Dame, Indiana
Valentine Kabanets - Simon Fraser University, Canada
Michael Molloy - University of Toronto
Cris Moore (Chair) - Santa Fe Institute
Assaf Naor - New York University
Krzysztof Onak - IBM T.J. Watson Research Center
Dana Ron - Tel-Aviv University
Alex Russell - University of Connecticut
Dominik Scheder - Aarhus University
Devavrat Shah - Massachusetts Institute of Technology

Perla Sousi - University of Cambridge
Mario Szegedy - Rutgers University
Amnon Ta-Shma - Tel-Aviv University
Thomas Vidick - Newton Institute, Cambridge, UK

Program Chairs

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RANDOM

Cris Moore - Santa Fe Institute
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Workshop Chairs

José Rolim, U. of Geneva
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Organizing Comitee Chair

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CONFERENCE WEB PAGE

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