APPROX 2014 and RANDOM 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

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
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Thomas Rothvoess - Massachusetts Institute of Technology
Barna Saha - AT&T Shannon Research Laboratory, New Jersey
Bruce Shepherd - MCGill University
Aravind Srinivasan - University of Maryland
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Random

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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  

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**CONFERENCE WEB PAGE**  
http://cui.unige.ch/tcs/random-approx/