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Topics of interest for APPROX and RANDOM are: design and analysis of approximation algorithms, hardness of approximation, small space algorithms, sub-linear time algorithms, streaming algorithms, embeddings and metric space methods, spectral methods, mathematical programming methods, combinatorial optimization in graphs and networks, algorithmic game theory, mechanism design and economics, computational geometric problems, distributed and parallel approximation, approximate learning, online algorithms, approaches that go beyond worst case analysis, 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, and other applications of approximation and randomness.

The volume contains 22 contributed papers, selected by the APPROX Program Committee out of 60 submissions, and 27 contributed papers, selected by the RANDOM Program Committee out of 72 submissions.

We would like to thank all the authors who submitted papers, the invited speakers, Uriel Feige and Moses Charikar, the members of the Program Committees, and the external reviewers. We gratefully acknowledge the Department of Computer Science of the Christian-Albrechts-Universität zu Kiel, the Department of Computer Science of the University of Geneva, the College of Computing of the Georgia Institute of Technology, and the School of Operations Research and Information Engineering of the Cornell University.

August 2017

Klaus Jansen, José D. P. Rolim
Santosh S. Vempala, and David P. Williamson
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