

Preface

The 13th Workshop on Approximation and Online Algorithms (WAOA 2015) focused on the design and analysis of approximation and online algorithms. These algorithms have become a fundamental tool in several fields and in many applications that cope with computationally hard problems and problems in which the input is gradually disclosed over time.

WAOA 2015 took place in Patras (Greece) during September 17–18, 2015, and it was part of ALGO 2015, which also hosted ESA, ALGOCLOUD, ALGOSENSORS, ATMOS, IPEC, and MASSIVE. The previous WAOA workshops were held in Budapest (2003), Rome (2004), Palma de Mallorca (2005), Zurich (2006), Eilat (2007), Karlsruhe (2008), Copenhagen (2009), Liverpool (2010), Saarbrücken (2011), Ljubljana (2012), Sophia Antipolis (2013), and Wraclaw (2014). The proceedings of all these previous WAOA workshops have been published as LNCS volumes.

Topics of interest for WAOA 2015 were: algorithmic game theory, algorithmic trading, coloring and partitioning, competitive analysis, computational advertising, computational finance, cuts and connectivity, geometric problems, graph algorithms, inapproximability, mechanism design, natural algorithms, network design, packing and covering, paradigms for the design and analysis of approximation and online algorithms, parameterized complexity, scheduling problems, and real-world applications. In response to the call for papers, we received 40 submissions, one of which was subsequently withdrawn. Each submission was reviewed by at least three referees, and mainly judged on originality, technical quality, and relevance to the topics of the conference. Based on the reviews, the Program Committee selected 17 papers. This volume contains final revised versions of these papers.

We would like to thank all the authors who submitted papers to WAOA 2015, and our plenary invited speaker Jochen Könemann for accepting our invitation. Furthermore, we are extremely grateful to the members of the Organizing Committee and its chair, Christos Zaroliagis, for doing a superb job with organizing ALGO 2015.

October 2015

Laura Sanità
Martin Skutella

Approximation and Online Algorithms

13th International Workshop, WAOA 2015, Patras,
Greece, September 17-18, 2015. Revised Selected
Papers

Sanità, L.; Skutella, M. (Eds.)

2015, X, 209 p. 24 illus. in color., Softcover

ISBN: 978-3-319-28683-9