

Preface

The 4th International Conference on Algorithmic Decision Theory (ADT 2015) brought together researchers and practitioners coming from diverse areas such as artificial intelligence, database systems, operations research, decision theory, discrete mathematics, game theory, multiagent systems, computational social choice, and theoretical computer science with the goal of improving the theory and practice of modern decision support. Previous conferences were held in Venice (2009), Piscataway (2011), and Brussels (2013).

Some of the scientific challenges facing the ADT community include big preference data, combinatorial structures, partial and/or uncertain information, distributed decision making, and large user bases. Such challenges occur in realworld decision making in domains such as electronic commerce, recommender systems, network optimization (communication, transport, energy), risk assessment and management, and e-government.

This volume contains the papers presented at ADT 2015. The conference itself was held during September 27–30 in Lexington, Kentucky. The meeting was co-located with the 13th International Conference on Logic Programming and Non-monotonic Reasoning (LPNMR 2015). A joint session and invited speaker were shared with this conference.

Each submission to ADT 2015 was reviewed by at least three Program Committee members. Reviewing was double blind. The committee decided to accept 32 papers out of the 70 submissions, giving an acceptance rate of 45 %. The program also includes six peer-reviewed papers written for the associated doctoral consortium.

I would like to thank Judy Goldsmith for her tireless efforts as local chair, the three invited speakers (Steve Brams, Jerome Lang, and Brent Venable), the LPNMR 2015 chairs for their help and cooperation, as well as the many people who volunteered to help in some way or other to make the meeting happen. I also thank the authors for trusting us with their latest research results, as well as the Program Committee and all their additional reviewers for their help with selecting and preparing the conference program.

I end by thanking my wife, Andrea, and my daughter, Bronte, who gave me the time and space to be a program chair yet again. Thank you.

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Toby Walsh

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