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Editors

Algorithmic Game Theory

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Preface

This volume contains the papers and extended abstracts presented at the 17th International Symposium on Algorithmic Game Theory (SAGT 2024), held during September 3–6, 2024, at Centrum Wiskunde & Informatica (CWI), Amsterdam, The Netherlands. The purpose of SAGT is to bring together researchers from computer science, economics, mathematics, operations research, psychology, physics, and biology to present and discuss original research at the intersection of algorithms and game theory.

This year, we received a record number of 84 submissions, which were rigorously peer-reviewed by the program committee (PC). Each paper was reviewed in an open peer-review process by at least three PC members, and evaluated on the basis of originality, soundness, significance, and exposition. The PC eventually decided to accept 32 papers to be presented at the conference, for an acceptance ratio of 38%.

The works accepted for publication in this volume cover most of the major aspects of algorithmic game theory, including auction theory, mechanism design, markets and matching, computational aspects of games, resource allocation problems, and computational social choice. To accommodate the publishing traditions of different fields, authors of accepted papers could ask that only a one-page abstract of the paper appeared in the proceedings. Among the 32 accepted papers, the authors of three papers chose this option.

Due to the financial support by Springer, we were able to provide two Best Paper Awards, one for the best student paper and one for a the best regular paper. The PC decided to give the Best Student Paper Award to the paper “Playing Repeated Games with Sublinear Randomness” by Farid Arthaud. The Best Paper Award was given to the paper “Swim Till You Sink: Computing the Limit of a Game” by Rashida Hakim, Jason Milionis, Christos Papadimitriou, and Georgios Piliouras.

The program also included three invited talks by distinguished researchers in algorithmic game theory, namely Paul Duetting (Google Research, Switzerland), Katrina Ligett (Hebrew University of Jerusalem, Israel), and Vasilis Gkatzelis (Drexel University, USA). In addition, SAGT 2024 featured two tutorials, which were given by Jan Maly (WU Wien, Austria) and Rebecca Reiffenhäuser (University of Amsterdam, Netherlands).

We would like to thank all the authors for their interest in submitting their work to SAGT 2024, as well as the 35 PC members and the external reviewers for their great work in evaluating the submissions. We also want to thank the local organizers Ulle Endriss, Sophie Klumper, Artem Tsikiris, and Susanne van Dam, as well as several people from ITF and COM at CWI, for their help with the organization of the conference.

We also want to thank our sponsors G-Research, IOG, CWI, Google, ILLC, Springer, Networks, NWO, and VVSOR for their generous financial support. Finally,

we would like to thank Springer for their work on the proceedings, as well as the EasyChair conference management system for facilitating the peer-review process.

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