

25th European Symposium on Algorithms

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Edited by

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■ Preface

This volume contains the extended abstracts selected for presentation at ESA 2017, the 25th European Symposium on Algorithms, held in Vienna, Austria, on 4-6 September 2017, as part of ALGO 2017. ESA scope includes original research on both theoretical and applied algorithmics. Since 2002, it has had two tracks, the Design and Analysis Track (Track A), intended for papers on the design and mathematical analysis of algorithms, and the Engineering and Applications Track (Track B), for submissions dealing with real-world applications, engineering, and experimental analysis of algorithms. Information on past symposia, including locations and proceedings, is maintained at <http://esa-symposium.org>. In response to the call for papers for ESA 2017, 271 papers were submitted, 229 for Track A and 42 for Track B. Paper selection was based on originality, technical quality, interestingness, exposition quality, and relevance. Each paper received at least three reviews. After extensive discussions, the two program committees selected 69 papers for inclusion in the program, 58 from track A and 11 from track B. Thus the acceptance rate was about 25% for both tracks. The symposium featured two invited lectures: The first by David P. Woodruff (Carnegie Mellon University) and the second by David Mount (University of Maryland). The European Association for Theoretical Computer Science (EATCS) sponsored a best paper award and a best student paper award. A submission was eligible for the best student paper award if all authors were doctoral, master, or bachelor students at the time of submission. The best student paper award was given to Marc Roth for the paper “Counting restricted homomorphisms via Möbius inversion over matroid lattices”.

The best paper award for track A was given to Marek Cygan, Lukasz Kowalik and Arkadiusz Socala for the paper “Improving TSP tours using dynamic programming over tree decompositions”. The best paper award for track B was given to Hisao Tamaki for the paper “Positive-instance driven dynamic programming for treewidth”.

We wish to thank all the authors who submitted papers for consideration, the invited speakers, the members of the Program Committees for their hard work, and all the external reviewers who assisted the Program Committees in the evaluation process. Special thanks go to the Local Organizing Committee, who helped us with the organization of the conference. Finally, we would like to thank Nicole Funk and Marvin Böcker for their valuable help in editing these proceedings.

Kirk Pruhs
Christian Sohler
July 2017



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