

# Preface

This volume contains the extended abstracts selected for presentation at ESA 2015, the 23rd European Symposium on Algorithms, held in Patras, Greece, September 14–16, 2015, as part of ALGO 2015. The ESA symposia are devoted to fostering and disseminating the results of high-quality research on algorithms and data structures. ESA seeks original algorithmic contributions for problems with relevant theoretical and/or practical applications and aims at bringing together researchers in the computer science and operations research communities. Ever 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 LNCS volume numbers, is maintained at <http://esa-symposium.org>.

In response to the call for papers, ESA 2015 attracted a record number of 320 submissions, 261 for Track A and 59 for Track B. Paper selection was based on originality, technical quality, and relevance. Considerable effort was devoted to the evaluation of the submissions, with at least three reviews per paper. With the help of more than 980 expert reviews and more than 514 external reviewers, the two committees selected 86 papers for inclusion in the scientific program of ESA 2015, 71 in Track A and 15 in Track B, yielding an acceptance rate of about 26%. In addition to the accepted contributions, the symposium featured two invited lectures by Rasmus Pagh (IT University of Copenhagen, Denmark) and Paul Spirakis (University of Liverpool, UK and CTI & University of Patras, Greece). Abstracts of the invited lectures are also included in this volume.

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. This award was shared by two papers: one by Sascha Witt for his contribution on “Trip-Based Public Transit Routing” and the other by Meirav Zehavi for her contribution entitled “Mixing Color Coding-Related Techniques.” The best paper award went to Christina Boucher, Christine Lo, and Daniel Lokshtanov for their paper entitled “Consensus Patterns (Probably) Has No EPTAS.” Our warmest congratulations to all of them for these achievements!

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 Giuseppe Italiano for answering our many questions along the way, and to Christos Zaroliagis, who helped with the local organization of the conference.

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