Lecture Notes in Computer Science 7982

Commenced Publication in 1973
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Preface

This volume contains the papers presented at the 18th International Conference on Implementation and Application of Automata (CIAA 2013), which was held at Saint Mary’s University in Halifax, Nova Scotia, Canada, during July 16–19 2013.


The topics of this volume include: complexity of automata, compressed automata, counter automata, dictionary matching, edit distance, homing sequences, implementation, minimization of automata, model checking, parsing of regular expressions, partial word automata, picture languages, pushdown automata, queue automata, reachability analysis for software verification, restarting automata, transducers, tree automata, weighted automata, XML streams.

The submission and refereeing process was supported by the EasyChair conference system. In all, 43 papers were submitted by authors in 22 different countries (from all six habitable continents), including Algeria, Bangladesh, Canada, Czech Republic, Denmark, France, Germany, Italy, Japan, Korea Republic, Poland, Portugal, Russian Federation, Slovakia, and the USA. Each paper was reviewed by at least three Program Committee members. The Program Committee selected 25 regular papers and three short papers for presentation at the conference and publication in this volume. There were three invited talks by Cezar Câmpeanu, Helmut Jürgensen, and Margus Veanes.

We are very thankful to all invited speakers, contributing authors, Program Committee members, and external referees for their valuable contributions toward the realization of CIAA 2013.

We also thank Alfred Hofmann and Anna Kramer of Springer for their guidance during the process of publishing this volume.

We are grateful to (a) the European Association for Theoretical Computer Science (EATCS) for their scientific sponsorship, (b) to Microsoft Research, and the Dean of Science and the Academic Vice President of Saint Mary’s University (SMU) for their financial support, and (c) to Destination Halifax for their assistance in arranging the accommodation and excursion venues.
Finally, we are indebted to the Organizing Committee members Casey Mei-\nocase{jer} and Rose Daurie, as well as to the research students of the department of Mathematics and Computing Science at Saint Mary’s University, Halifax. We are looking forward to the next CIAA in Giessen, Germany.

July 2013

Stavros Konstantinidis
Organization

CIAA 2013 was organized at the Department of Mathematics and Computing Science, Saint Mary’s University, Halifax, Canada.

Invited Speakers

Câmpeanu, Cezar  
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