

30th International Symposium on Theoretical Aspects of Computer Science

STACS'13, February 27th to March 2nd, 2013, Kiel, Germany

Edited by

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■ Foreword

The Symposium on Theoretical Aspects of Computer Science (STACS) is an international forum for original and unpublished research on theoretical aspects of computer science. Typical areas are (cited from the call for papers for this year's conference):

- algorithms and data structures, including: parallel, distributed, approximation, and randomized algorithms, computational geometry, cryptography, algorithmic learning theory, analysis of algorithms;
- automata and formal languages, games;
- computational complexity, randomness in computation;
- logic in computer science, including: semantics, specification and verification, rewriting and deduction;
- current challenges, for example: natural computing, quantum computing, mobile and net computing.

STACS has taken place each year since 1984, alternately in Germany and France. The conference in Kiel from February 27 through March 2, 2013, is the 30th in this series: Paris (1984), Saarbrücken (1985), Orsay (1986), Passau (1987), Bordeaux (1988), Paderborn (1989), Rouen (1990), Hamburg (1991), Cachan (1992), Würzburg (1993), Caen (1994), München (1995), Grenoble (1996), Lübeck (1997), Paris (1998), Trier (1999), Lille (2000), Dresden (2001), Antibes (2002), Berlin (2003), Montpellier (2004), Stuttgart (2005), Marseille (2006), Aachen (2007), Bordeaux (2008), Freiburg (2009), Nancy (2010), Dortmund (2011), Paris (2012), and Kiel (2013).

The interest in STACS has remained at a high level over the past years; STACS 2013 received 254 submissions from 41 countries. (Authors were asked to submit an extended abstract of at most 12 pages; missing proofs had to be put into an appendix.) In the selection process, 54 submissions were selected for presentation and publication, which implies an acceptance rate of about 21%. The selection of the contributions was carried out in a two-phase process in autumn 2012: over a period of eight weeks, every paper was reviewed by three members of the program committee, who, at their discretion, involved external reviewers; over a period of four weeks, intensive discussions within the program committee, structured in five rounds, led to the selection of the papers published in this volume. The overall very high quality of the submissions made the selection a difficult task.

As co-chairs of the program committee, we would like to sincerely thank our colleagues for having submitted to STACS such a great number of excellent papers, our co-members of the program committee (see list on page vii) and the many external reviewers (see list on page ix) for their valuable work in assessing the merits of each individual submission. We would like to express our thanks to the three invited speakers, Kousha Etessami, Kurt Mehlhorn, and Stéphan Thomassé, and to Dániel Marx, the invited tutorial speaker. Special thanks go to Andrei Voronkov for providing EasyChair, the software used for processing and screening submissions to the conference.

We would like to warmly thank Henning Schnoor and Björn Kinscher for preparing these conference proceedings, and Michael Wagner and Marc Herbstritt from the Dagstuhl/LIPIcs team for assisting us in the publication process and the final production of the proceedings.

These proceedings contain extended abstracts of the accepted contributions and abstracts of the invited talks and the tutorial. The authors have retained their rights and make their work available under a Creative Commons license. The proceedings are published electronically by Schloss Dagstuhl – Leibniz-Center for Informatics within their LIPIcs series;

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they are accessible through several portals, in particular, DROPS and HAL. Both, DROPS and HAL, guarantee perennial and easy electronic access as well as indexing in DBLP and Google Scholar.

Lyon and Kiel, February 2013

Natacha Portier and Thomas Wilke

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