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36th International Symposium on Theoretical Aspects of Computer Science (STACS 2019)

Rolf Niedermeier, Christophe Paul

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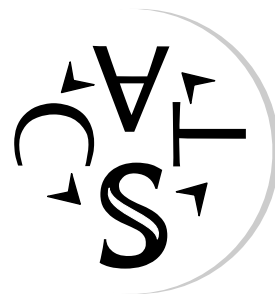
36th International Symposium on Theoretical Aspects of Computer Science

STACS 2019, March 13–16, 2019, Berlin, Germany

Edited by

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■ Foreword

The International Symposium on Theoretical Aspects of Computer Science (STACS) conference series is an internationally leading forum for original research on theoretical aspects of computer science. Typical areas are:

- algorithms and data structures, including: design of parallel, distributed, approximation, parameterized and randomized algorithms; analysis of algorithms and combinatorics of data structures; computational geometry, cryptography, algorithmic learning theory, algorithmic game theory;
- automata and formal languages, including: algebraic and categorical methods, coding theory;
- complexity and computability, including: computational and structural complexity theory, parameterized complexity, randomness in computation;
- logic in computer science, including: finite model theory, database theory, semantics, specification verification, rewriting and deduction;
- current challenges, for example: natural computing, quantum computing, mobile and net computing, computational social choice.

STACS is held alternately in France and in Germany. This year's conference (taking place March 13–16 in Berlin) is the 36th in the series. Previous meetings took place in 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), Kiel (2013), Lyon (2014), München (2015), Orléans (2016), Hannover (2017), Caen (2018).

The interest in STACS has remained at a very high level over the past years. The STACS 2019 call for papers led to 260 submissions with authors from 39 countries. Each paper was assigned to three program committee members who, at their discretion, asked external reviewers for reports. The committee selected 54 papers during a three-week electronic meeting held in November/December 2018. This means an acceptance rate of only 21 %. For the fifth time within the STACS conference series, there was also a rebuttal period during which authors could submit remarks to the PC concerning the reviews of their papers. As co-chairs of the program committee, we would like to sincerely thank all its members and 491 external reviewers for their valuable work. In particular, there were intense and interesting discussions inside the PC committee. The overall very high quality of the submissions made the selection an extremely difficult task. This year, the conference includes two invited tutorials. We would like to express our thanks to the speakers Karl Bringmann (Saarbrücken) and Tobias Friedrich (Potsdam) for their tutorials, as well as to the three invited speakers, Leslie Ann Goldberg (Oxford), Anca Muscholl (Bordeaux), and Petra Mutzel (Dortmund). Special thanks go to the local organizing committee for continuous help throughout the conference organization. In particular, we wish to thank Till Fluschnik for his day-to-day support on the technical side and Christlinde Thielcke for her permanent administrative support. We also thank André Nichterlein for his final assistance in producing the conference proceedings and TUBS GmbH for their handling of financial accounting.



Moreover, we thank Michael Wagner 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 tutorials. The authors retain 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. STACS 2019 has received funds and help from the Deutsche Forschungsgemeinschaft (DFG) and support and help from the Technische Universität Berlin (TU Berlin), for which we are very grateful.

Berlin and Montpellier, March 2019

Rolf Niedermeier and Christophe Paul

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