

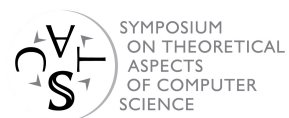
# 35th Symposium on Theoretical Aspects of Computer Science

STACS 2018, February 28–March 3, 2018, Caen, France

Edited by

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#### *ACM Classification 2012*

Mathematics of computing, Theory of computation

**ISBN 978-3-95977-062-0**

#### *Published online and open access by*

Schloss Dagstuhl – Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing, Saarbrücken/Wadern, Germany. Online available at <http://www.dagstuhl.de/dagpub/978-3-95977-062-0>.

#### *Publication date*

February, 2018

#### *Bibliographic information published by the Deutsche Nationalbibliothek*

The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data are available in the Internet at <http://dnb.d-nb.de>.

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Digital Object Identifier: 10.4230/LIPIcs.STACS.2018.0

ISBN 978-3-95977-062-0

ISSN 1868-8969

<http://www.dagstuhl.de/lipics>

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## ■ Foreword

The Symposium on Theoretical Aspects of Computer Science (STACS) conference series is an international 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 February 28–March 3 in Caen) is the 35th 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).

The interest in STACS has remained at a high level over the past years. The STACS 2018 call for papers led to 186 submissions with authors from 36 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. For the third 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 the many external referees 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 a difficult task.

This year, the conference includes a tutorial. We would like to express our thanks to the speaker Bruno Salvy for this tutorial, as well as to the three invited speakers, Meena Mahajan, Damien Pous, Gerhard Woeginger. Special thanks go to the local organizing committee for continuous help throughout the conference organization. In particular, we wish to thank Nicolas Bedon, Julien Clément, and Julien Courtiel for their work in the edition of the proceedings, and Ali Akhavi in the general organization; we also wish to thank Virginie Desnos-Carreau and Agnès Zannier for their administrative support.

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 tutorial. 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 2018 has received funds and help from the following various institutions, for which we are very grateful:

- CNRS (Comité National de la Recherche Scientifique)
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- Mathematics and Computer Science Laboratories in Normandy
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  - LITIS (Laboratoire d’Informatique, du Traitement de l’Information et des Systèmes): Université de Rouen, Université du Havre, Institut National des Sciences Appliquées (INSA);
  - LMNO (Laboratoire de Mathématiques Nicolas Oresme): Université de Caen Normandie, CNRS;
  - NormaSTIC (Fédération Normande de Recherche en Sciences et Technologies de l’Information et de la Communication)
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Caen and Berlin, March 2018

Brigitte Vallée and Rolf Niedermeier

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