

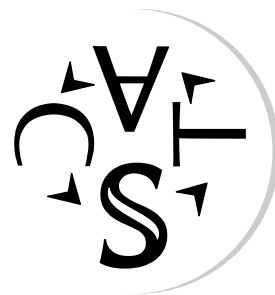
36th International Symposium on Theoretical Aspects of Computer Science

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

Edited by

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■ Contents

Foreword	
<i>Rolf Niedermeier and Christophe Paul</i>	0:ix

Invited Talks

Computational Complexity and Partition Functions	
<i>Leslie Ann Goldberg</i>	1:1–1:3
The Many Facets of String Transducers	
<i>Anca Muscholl and Gabriele Puppis</i>	2:1–2:21
Algorithmic Data Science	
<i>Petra Mutzel</i>	3:1–3:15

Tutorials

Fine-Grained Complexity Theory	
<i>Karl Bringmann</i>	4:1–4:7
From Graph Theory to Network Science: The Natural Emergence of Hyperbolicity	
<i>Tobias Friedrich</i>	5:1–5:9

Regular Contributions

The Semialgebraic Orbit Problem	
<i>Shaul Almagor, Joël Ouaknine, and James Worrell</i>	6:1–6:15
Best-Of-Two-Worlds Analysis of Online Search	
<i>Spyros Angelopoulos, Christoph Dürr, and Shendan Jin</i>	7:1–7:17
Bipartite Diameter and Other Measures Under Translation	
<i>Boris Aronov, Omrit Filtser, Matthew J. Katz, and Khadijeh Sheikhan</i>	8:1–8:14
Solving Simple Stochastic Games with Few Random Nodes Faster Using Bland's Rule	
<i>David Auger, Pierre Couheney, and Yann Strozecki</i>	9:1–9:16
Distributed Coloring of Graphs with an Optimal Number of Colors	
<i>Étienne Bamas and Louis Esperet</i>	10:1–10:15
On the Descriptive Complexity of Color Coding	
<i>Max Bannach and Till Tantau</i>	11:1–11:16
Bounding Quantum-Classical Separations for Classes of Nonlocal Games	
<i>Tom Bannink, Jop Briët, Harry Buhrman, Farrokh Labib, and Troy Lee</i>	12:1–12:11
Token Sliding on Split Graphs	
<i>Rémy Belmonte, Eun Jung Kim, Michael Lampis, Valia Mitsou, Yota Otachi, and Florian Sikora</i>	13:1–13:17



Building Strategies <i>into</i> QBF Proofs <i>Olaf Beyersdorff, Joshua Blinkhorn, and Meena Mahajan</i>	14:1–14:18
Tight Analysis of the Smartstart Algorithm for Online Dial-a-Ride on the Line <i>Alexander Birx and Yann Disser</i>	15:1–15:17
Enumerating Minimal Dominating Sets in Triangle-Free Graphs <i>Marthe Bonamy, Oscar Defrain, Marc Heinrich, and Jean-Florent Raymond</i>	16:1–16:12
Sparsification of Binary CSPs <i>Silvia Butti and Stanislav Živný</i>	17:1–17:8
Tractable QBF by Knowledge Compilation <i>Florent Capelli and Stefan Mengel</i>	18:1–18:16
A Tight Extremal Bound on the Lovász Cactus Number in Planar Graphs <i>Parinya Chalermsook, Andreas Schmid, and Sumedha Uniyal</i>	19:1–19:14
Average-Case Completeness in Tag Systems <i>Matthew Cook and Turlough Neary</i>	20:1–20:17
Pairwise Preferences in the Stable Marriage Problem <i>Ágnes Cseh and Attila Juhos</i>	21:1–21:16
Closure Properties of Synchronized Relations <i>María Emilia Descotte, Diego Figueira, and Santiago Figueira</i>	22:1–22:17
Resource-Bounded Kolmogorov Complexity Provides an Obstacle to Soficness of Multidimensional Shifts <i>Julien Destombes and Andrei Romashchenko</i>	23:1–23:17
Constant-Time Retrieval with $O(\log m)$ Extra Bits <i>Martin Dietzfelbinger and Stefan Walzer</i>	24:1–24:16
Complexity of the Steiner Network Problem with Respect to the Number of Terminals <i>Eduard Eiben, Dušan Knop, Fahad Panolan, and Ondřej Suchý</i>	25:1–25:17
Space Lower Bounds for the Signal Detection Problem <i>Faith Ellen, Rati Gelashvili, Philipp Woelfel, and Leqi Zhu</i>	26:1–26:13
Progressive Algorithms for Domination and Independence <i>Grzegorz Fabiański, Michał Pilipczuk, Sebastian Siebertz, and Szymon Toruńczyk</i> .	27:1–27:16
Modification to Planarity is Fixed Parameter Tractable <i>Fedor V. Fomin, Petr A. Golovach, and Dimitrios M. Thilikos</i>	28:1–28:17
Visibly Pushdown Languages over Sliding Windows <i>Moses Ganardi</i>	29:1–29:17
Fast and Longest Rollercoasters <i>Paweł Gawrychowski, Florin Manea, and Radosław Serafin</i>	30:1–30:17
Wealth Inequality and the Price of Anarchy <i>Kurtuluş Gemici, Elias Koutsoupias, Barnabé Monnot, Christos H. Papadimitriou, and Georgios Piliouras</i>	31:1–31:16

Lean Tree-Cut Decompositions: Obstructions and Algorithms <i>Archontia C. Giannopoulou, O-joong Kwon, Jean-Florent Raymond, and Dimitrios M. Thilikos</i>	32:1–32:14
Dispersing Obnoxious Facilities on a Graph <i>Alexander Grigoriev, Tim A. Hartmann, Stefan Lendl, and Gerhard J. Woeginger</i>	33:1–33:11
Reachability in $O(\log n)$ Genus Graphs is in Unambiguous Logspace <i>Chetan Gupta, Vimal Raj Sharma, and Raghunath Tewari</i>	34:1–34:13
Dominating Sets and Connected Dominating Sets in Dynamic Graphs <i>Niklas Hjuler, Giuseppe F. Italiano, Nikos Parotsidis, and David Saulpic</i>	35:1–35:17
On Kernelization for Edge Dominating Set under Structural Parameters <i>Eva-Maria C. Hols and Stefan Kratsch</i>	36:1–36:18
Compressed Decision Problems in Hyperbolic Groups <i>Derek Holt, Markus Lohrey, and Saul Schleimer</i>	37:1–37:16
How to Secure Matchings Against Edge Failures <i>Felix Hommelsheim, Moritz Mühlenthaler, and Oliver Schaudt</i>	38:1–38:16
A Deterministic Polynomial Kernel for Odd Cycle Transversal and Vertex Multiway Cut in Planar Graphs <i>Bart M. P. Jansen, Marcin Pilipczuk, and Erik Jan van Leeuwen</i>	39:1–39:18
A Characterization of Subshifts with Computable Language <i>Emmanuel Jeandel and Pascal Vanier</i>	40:1–40:16
Lower Bounds for DeMorgan Circuits of Bounded Negation Width <i>Stasys Jukna and Andrzej Lingas</i>	41:1–41:17
Depth First Search in the Semi-streaming Model <i>Shahbaz Khan and Shashank K. Mehta</i>	42:1–42:16
On Finite Monoids over Nonnegative Integer Matrices and Short Killing Words <i>Stefan Kiefer and Corto Mascle</i>	43:1–43:13
Tight Complexity Lower Bounds for Integer Linear Programming with Few Constraints <i>Dušan Knop, Michal Pilipczuk, and Marcin Wrochna</i>	44:1–44:15
The Set Cover Conjecture and Subgraph Isomorphism with a Tree Pattern <i>Robert Krauthgamer and Ohad Trabelsi</i>	45:1–45:15
Algorithmic Properties of Sparse Digraphs <i>Stephan Kreutzer, Irene Muzi, Patrice Ossona de Mendez, Roman Rabinovich, and Sebastian Siebertz</i>	46:1–46:20
Tree Automata with Global Constraints for Infinite Trees <i>Patrick Landwehr and Christof Löding</i>	47:1–47:15
Constructive Discrepancy Minimization with Hereditary L2 Guarantees <i>Kasper Green Larsen</i>	48:1–48:13
Quantum Advantage for the LOCAL Model in Distributed Computing <i>François Le Gall, Harumichi Nishimura, and Ansis Rosmanis</i>	49:1–49:14

Lifting Theorems for Equality <i>Bruno Loff and Sagnik Mukhopadhyay</i>	50:1–50:19
Car-Sharing on a Star Network: On-Line Scheduling with k Servers <i>Kelin Luo, Thomas Erlebach, and Yinfeng Xu</i>	51:1–51:14
Beyond Boolean Surjective VCSPs <i>Gregor Matl and Stanislav Živný</i>	52:1–52:15
The Containment Problem for Unambiguous Register Automata <i>Antoine Mottet and Karin Quaas</i>	53:1–53:15
Stabilization Time in Weighted Minority Processes <i>Pál András Papp and Roger Wattenhofer</i>	54:1–54:15
Finite Sequentiality of Unambiguous Max-Plus Tree Automata <i>Erik Paul</i>	55:1–55:17
Paging with Dynamic Memory Capacity <i>Enoch Peserico</i>	56:1–56:18
Random Noise Increases Kolmogorov Complexity and Hausdorff Dimension <i>Gleb Posobin and Alexander Shen</i>	57:1–57:14
A Unified Approach to Tail Estimates for Randomized Incremental Construction <i>Sandeep Sen</i>	58:1–58:16
A $ZPP^{NP[1]}$ Lifting Theorem <i>Thomas Watson</i>	59:1–59:16

■ 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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