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Edited by

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■ Contents

Preface	
<i>Olaf Beyersdorff, Michał Pilipczuk, Elaine Pimentel, and Nguyễn Kim Thăng</i>	0:xi–0:xii
Conference Organization	
.....	0:xiii–0:xvii
List of Authors	
.....	0:xix–0:xxv

Invited Talks

Proof Complexity and Its Relations to SAT Solving	
<i>Albert Atserias</i>	1:1–1:1
A Strongly Polynomial Algorithm for Linear Programs with at Most Two Non-Zero Entries per Row or Column	
<i>Daniel Dadush, Zhuan Khye Koh, Bento Natura, Neil Olver, and László A. Végh</i> .	2:1–2:1
Algebras for Automata: Reasoning with Regularity	
<i>Anupam Das</i>	3:1–3:1
Some Recent Advancements in Monotone Circuit Complexity	
<i>Susanna F. de Rezende</i>	4:1–4:2

Regular Papers

Parameterized Saga of First-Fit and Last-Fit Coloring	
<i>Akanksha Agrawal, Daniel Lokshtanov, Fahad Panolan, Saket Saurabh, and Shaily Verma</i>	5:1–5:21
Twin-Width One	
<i>Jungho Ahn, Hugo Jacob, Noleen Köhler, Christophe Paul, Amadeus Reinald, and Sebastian Wiederrecht</i>	6:1–6:19
Faster Edge Coloring by Partition Sieving	
<i>Shyan Akmal and Tomohiro Koana</i>	7:1–7:18
Tropical Proof Systems: Between R(CP) and Resolution	
<i>Yaroslav Alekseev, Dima Grigoriev, and Edward A. Hirsch</i>	8:1–8:20
Improved Approximation Algorithms for (1,2)-TSP and Max-TSP Using Path Covers in the Semi-Streaming Model	
<i>Sharareh Alipour, Ermiya Farokhnejad, and Tobias Mömke</i>	9:1–9:17
Monotone Weak Distributive Laws over the Lifted Powerset Monad in Categories of Algebras	
<i>Quentin Aristote</i>	10:1–10:20
Generalized Inner Product Estimation with Limited Quantum Communication	
<i>Srinivasan Arunachalam and Louis Schatzki</i>	11:1–11:17



Results on H -Freeness Testing in Graphs of Bounded r -Admissibility <i>Christine Awofeso, Patrick Greaves, Oded Lachish, and Felix Reidl</i>	12:1–12:16
Hyperbolic Random Graphs: Clique Number and Degeneracy with Implications for Colouring <i>Samuel Baguley, Yannic Maus, Janosch Ruff, and George Skretas</i>	13:1–13:20
Multivariate Exploration of Metric Dilation <i>Aritra Banik, Fedor V. Fomin, Petr A. Golovach, Tanmay Inamdar, Satyabrata Jana, and Saket Saurabh</i>	14:1–14:17
Structure-Guided Automated Reasoning <i>Max Bannach and Markus Hecher</i>	15:1–15:18
Listing Spanning Trees of Outerplanar Graphs by Pivot-Exchanges <i>Nastaran Behrooznia and Torsten Mütze</i>	16:1–16:18
Tight Approximation and Kernelization Bounds for Vertex-Disjoint Shortest Paths <i>Matthias Bentert, Fedor V. Fomin, and Petr A. Golovach</i>	17:1–17:17
Online Disjoint Set Covers: Randomization Is Not Necessary <i>Marcin Bienkowski, Jarosław Byrka, and Łukasz Jeż</i>	18:1–18:16
The Complexity of Learning LTL, CTL and ATL Formulas <i>Benjamin Bordais, Daniel Neider, and Rajarshi Roy</i>	19:1–19:20
On Cascades of Reset Automata <i>Roberto Borelli, Luca Geatti, Marco Montali, and Angelo Montanari</i>	20:1–20:22
Computability of Extender Sets in Multidimensional Subshifts <i>Antonin Callard, Léo Paviet Salomon, and Pascal Vanier</i>	21:1–21:19
CMSO-Transducing Tree-Like Graph Decompositions <i>Rutger Campbell, Bruno Guillon, Mamadou Moustapha Kanté, Eun Jung Kim, and Noleen Köhler</i>	22:1–22:18
How to Play the Accordion: Uniformity and the (Non-)Conservativity of the Linear Approximation of the λ -Calculus <i>Rémy Cerda and Lionel Vaux Auclair</i>	23:1–23:21
A Deterministic Approach to Shortest Path Restoration in Edge Faulty Graphs <i>Keerti Choudhary and Rishabh Dhiman</i>	24:1–24:10
Local Density and Its Distributed Approximation <i>Aleksander Bjørn Christiansen, Ivor van der Hoog, and Eva Rotenberg</i>	25:1–25:20
Toward Better Depth Lower Bounds: Strong Composition of XOR and a Random Function <i>Nikolai Chukhin, Alexander S. Kulikov, and Ivan Mihajlin</i>	26:1–26:15
Local Equivalence of Stabilizer States: A Graphical Characterisation <i>Nathan Claudet and Simon Perdrix</i>	27:1–27:18
Can You Link Up With Treewidth? <i>Radu Curticapean, Simon Döring, Daniel Neuen, and Jiaheng Wang</i>	28:1–28:24

Noisy (Binary) Searching: Simple, Fast and Correct <i>Dariusz Dereniowski, Aleksander Łukasiewicz, and Przemysław Uznański</i>	29:1–29:18
Being Efficient in Time, Space, and Workload: a Self-Stabilizing Unison and Its Consequences <i>Stéphane Devismes, David Ilcinkas, Colette Johnen, and Frédéric Mazoit</i>	30:1–30:18
Efficient Approximation Schemes for Scheduling on a Stochastic Number of Machines <i>Leah Epstein and Asaf Levin</i>	31:1–31:18
A Faster Algorithm for Constrained Correlation Clustering <i>Nick Fischer, Evangelos Kipouridis, Jonas Klausen, and Mikkel Thorup</i>	32:1–32:18
Metric Dimension and Geodetic Set Parameterized by Vertex Cover <i>Florent Foucaud, Esther Galby, Liana Khazaliya, Shaohua Li, Fionn Mc Inerney, Roohani Sharma, and Prafullkumar Tale</i>	33:1–33:20
Agreement Tasks in Fault-Prone Synchronous Networks of Arbitrary Structure <i>Pierre Fraigniaud, Minh Hang Nguyen, and Ami Paz</i>	34:1–34:21
Dimension-Free Parameterized Approximation Schemes for Hybrid Clustering <i>Ameet Gadekar and Tanmay Inamdar</i>	35:1–35:20
MaxMin Separation Problems: FPT Algorithms for <i>st</i> -Separator and Odd Cycle Transversal <i>Ajinkya Gaikwad, Hitendra Kumar, Soumen Maity, Saket Saurabh, and Roohani Sharma</i>	36:1–36:21
On the Existential Theory of the Reals Enriched with Integer Powers of a Computable Number <i>Jorge Gallego-Hernández and Alessio Mansutti</i>	37:1–37:18
Two-Dimensional Longest Common Extension Queries in Compact Space <i>Arnab Ganguly, Daniel Gibney, Rahul Shah, and Sharma V. Thankachan</i>	38:1–38:17
A Quasi-Polynomial Time Algorithm for Multi-Arrival on Tree-Like Multigraphs <i>Ebrahim Ghorbani, Jonah Leander Hoff, and Matthias Mnich</i>	39:1–39:19
Identity-Preserving Lax Extensions and Where to Find Them <i>Sergey Goncharov, Dirk Hofmann, Pedro Nora, Lutz Schröder, and Paul Wild</i>	40:1–40:20
Residue Domination in Bounded-Treewidth Graphs <i>Jakob Greilhuber, Philipp Schepper, and Philip Wellnitz</i>	41:1–41:20
Local Enumeration: The Not-All-Equal Case <i>Mohit Gurumukhani, Ramamohan Paturi, Michael Saks, and Navid Talebanfard</i> .	42:1–42:19
Approximating Densest Subgraph in Geometric Intersection Graphs <i>Sariel Har-Peled and Saladi Rahul</i>	43:1–43:17
Independence and Domination on Bounded-Treewidth Graphs: Integer, Rational, and Irrational Distances <i>Tim A. Hartmann and Dániel Marx</i>	44:1–44:19
Forbidden Patterns in Mixed Linear Layouts <i>Deborah Haun, Laura Merker, and Sergey Pupyrev</i>	45:1–45:21

Sampling Unlabeled Chordal Graphs in Expected Polynomial Time <i>Úrsula Hébert-Johnson and Daniel Lokshantov</i>	46:1–46:20
Minimizing the Number of Tardy Jobs with Uniform Processing Times on Parallel Machines <i>Klaus Heeger and Hendrik Molter</i>	47:1–47:17
Subshifts Defined by Nondeterministic and Alternating Plane-Walking Automata <i>Benjamin Hellouin de Menibus and Pacôme Perrotin</i>	48:1–48:15
Cycle Counting Under Local Differential Privacy for Degeneracy-Bounded Graphs <i>Quentin Hillebrand, Vorapong Suppakitpaisarn, and Tetsuo Shibuya</i>	49:1–49:22
Designing Exploration Contracts <i>Martin Hoefer, Conrad Schecker, and Kevin Schewior</i>	50:1–50:19
Protecting the Connectivity of a Graph Under Non-Uniform Edge Failures <i>Felix Hommelsheim, Zhenwei Liu, Nicole Megow, and Guochuan Zhang</i>	51:1–51:21
Polynomial Kernel and Incompressibility for Prison-Free Edge Deletion and Completion <i>Sébane Bel Houari-Durand, Eduard Eiben, and Magnus Wahlström</i>	52:1–52:17
On Read- k Projections of the Determinant <i>Pavel Hrubeš and Pushkar S. Joglekar</i>	53:1–53:7
Multidimensional Quantum Walks, Recursion, and Quantum Divide & Conquer <i>Stacey Jeffery and Galina Pass</i>	54:1–54:16
Modal Separation of Fixpoint Formulae <i>Jean Christoph Jung and Jędrzej Kołodziejewski</i>	55:1–55:20
Transforming Stacks into Queues: Mixed and Separated Layouts of Graphs <i>Julia Katheder, Michael Kaufmann, Sergey Pupyrev, and Torsten Ueckerdt</i>	56:1–56:18
Approximate Minimum Tree Cover in All Symmetric Monotone Norms Simultaneously <i>Matthias Kaul, Kelin Luo, Matthias Mnich, and Heiko Röglin</i>	57:1–57:18
Violating Constant Degree Hypothesis Requires Breaking Symmetry <i>Piotr Kawałek and Armin Weiß</i>	58:1–58:21
Online Matching with Delays and Size-Based Costs <i>Yasushi Kawase and Tomohiro Nakayoshi</i>	59:1–59:18
Modular Counting CSP: Reductions and Algorithms <i>Amirhossein Kazemini and Andrei A. Bulatov</i>	60:1–60:18
Efficiently Computing the Minimum Rank of a Matrix in a Monoid of Zero-One Matrices <i>Stefan Kiefer and Andrew Ryzhikov</i>	61:1–61:22
Faster Algorithms on Linear Delta-Matroids <i>Tomohiro Koana and Magnus Wahlström</i>	62:1–62:19
Approximation of Spanning Tree Congestion Using Hereditary Bisection <i>Petr Kolman</i>	63:1–63:6

Cluster Editing on Cographs and Related Classes <i>Manuel Lafond, Alitzel López Sánchez, and Weidong Luo</i>	64:1–64:21
On Average Baby PIH and Its Applications <i>Yuwei Liu, Yijia Chen, Shuangle Li, Bingkai Lin, and Xin Zheng</i>	65:1–65:19
The Hardness of Decision Tree Complexity <i>Bruno Loff and Alexey Milovanov</i>	66:1–66:13
Commutative N-Rational Series of Polynomial Growth <i>Aliaume Lopez</i>	67:1–67:16
Slightly Non-Linear Higher-Order Tree Transducers <i>Lê Thành Dũng (Tito) Nguyễn and Gabriele Vanoni</i>	68:1–68:20
A Dichotomy Theorem for Ordinal Ranks in MSO <i>Damian Niwiński, Paweł Parys, and Michał Skrzypczak</i>	69:1–69:18
Colorful Vertex Recoloring of Bipartite Graphs <i>Boaz Patt-Shamir, Adi Rosén, and Seeun William Umboh</i>	70:1–70:19
Unfairly Splitting Separable Necklaces <i>Patrick Schnider, Linus Stalder, and Simon Weber</i>	71:1–71:19
Card-Based Protocols Imply PSM Protocols <i>Kazumasa Shinagawa and Koji Nuida</i>	72:1–72:18
Dominating Set, Independent Set, Discrete k -Center, Dispersion, and Related Problems for Planar Points in Convex Position <i>Anastasiia Tkachenko and Haitao Wang</i>	73:1–73:20
Nearly-Optimal Algorithm for Non-Clairvoyant Service with Delay <i>Noam Touitou</i>	74:1–74:21
Canonical Labeling of Sparse Random Graphs <i>Oleg Verbitsky and Maksim Zhukovskii</i>	75:1–75:20
Dynamic Unit-Disk Range Reporting <i>Haitao Wang and Yiming Zhao</i>	76:1–76:19

■ Preface

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.

STACS 2025 consists of two tracks, A and B. Track A is dedicated to algorithms and data structures, complexity and games. Track B covers automata, logic, semantics and theory of programming.

STACS is held alternately in France and in Germany. This year's conference, taking place in Jena (Germany) from March 4 to March 7, is the 42nd 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), Berlin (2019), Montpellier (2020), Saarbrücken (2021, taking place virtually), Marseille (2022, taking place virtually), Hamburg (2023) and Clermont-Ferrand (2024).

The STACS 2025 call for papers led to 259 submissions (202 for Track A and 57 for Track B). Each paper was assigned to three program committee members who, at their discretion, asked external reviewers for reports. STACS 2025 employed a lightweight double-blind reviewing process and incorporated an author rebuttal period in the reviewing process.

The committee selected 72 papers for presentation at the conference (55 for Track A and 17 for Track B), implying an acceptance rate of approximately 28%. We are thankful to all individuals, institutions, and organizations who contributed to making STACS 2025 a success. We thank all authors for submitting their work to STACS 2025. Our deepest thanks go to all Program Committee members and external expert reviewers for carefully reading the submissions, providing constructive comments, and for participating in extensive discussions that helped in selecting the strongest papers for the technical program of the conference. The very high quality of the submissions made the selection an extremely difficult task. We also thank the Steering Committee members of STACS for providing overall guidance.

We would like to express our gratitude to the three invited speakers: Daniel Dadush (CWI Amsterdam), Anupam Das (University of Birmingham), and Susanna F. de Rezende (Lund University) and to Albert Atserias (UPC Barcelona) as the tutorial speaker.

STACS 2025 was preceded on 3 and 4 March 2025 by a workshop on algorithms, complexity and logic (Theorietag), a workshop under the auspices of the GI interest groups on Algorithms, Complexity and Logic. Invited talks at the workshop were given by Heribert Vollmer (Hanover) and Sebastian Wild (Marburg). We thank Christian Komusiewicz (University of Jena) for co-organising the pre-conference workshop. As in 2024, STACS 2025 was accompanied by an extended stay support program, allowing participants to combine their conference visit with a research trip to a nearby university.

Full versions of selected outstanding papers from STACS 2025 are invited for submission to the journal *TheoretiCS*. Further selected papers from Track A are invited to the *ACM Transactions on Computation Theory* and selected papers from Track B to *Logical Methods in Computer Science*.

We thank the 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 tutorial and invited talks. 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.

Finally, we would like to thank Friedrich Schiller University of Jena, the Carl Zeiss Foundation, the Interactive Inference project, Inverso, the University Clermont Auvergne and LIMOS for their support. Our special thanks go to Silvia Blaser, Benjamin Böhm, Marlene Gründel, Tim Hoffmann, Kaspar Kasche, Agnes Schleitzer and Luc Spachmann – the local organising team at the University of Jena – for all their help with the organisation, including the webpages, the registration and the social events.

March 2025

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