

Contents

Invited Talks

Towards Better Inapproximability Bounds for TSP: A Challenge of Global Dependencies	3
<i>Marek Karpinski</i>	

On the Existence and Computability of Long-Run Average Properties in Probabilistic VASS	12
<i>Antonín Kučera</i>	

Geometry, Combinatorics, Text Algorithms

Longest α -Gapped Repeat and Palindrome	27
<i>Paweł Gawrychowski and Florin Manea</i>	

On the Enumeration of Permutominoes	41
<i>Ana Paula Tomás</i>	

Stabbing Segments with Rectilinear Objects	53
<i>Mercè Claverol, Delia Garijo, Matias Korman, Carlos Seara, and Rodrigo I. Silveira</i>	

β -skeletons for a Set of Line Segments in R^2	65
<i>Miroslaw Kowaluk and Gabriela Majewska</i>	

Complexity and Boolean Functions

Depth, Highness and DNR Degrees	81
<i>Philippe Moser and Frank Stephan</i>	

On the Expressive Power of Read-Once Determinants	95
<i>N.R. Aravind and Pushkar S. Joglekar</i>	

Constructive Relationships Between Algebraic Thickness and Normality	106
<i>Joan Boyar and Magnus Gausdal Find</i>	

On the Structure of Solution-Graphs for Boolean Formulas	118
<i>Patrick Scharpfenecker</i>	

Languages

Interprocedural Reachability for Flat Integer Programs	133
<i>Pierre Ganty and Radu Iosif</i>	

Complexity of Suffix-Free Regular Languages	146
<i>Janusz Brzozowski and Marek Szykula</i>	
Alternation Hierarchies of First Order Logic with Regular Predicates.	160
<i>Luc Dartois and Charles Paperman</i>	
A Note on Decidable Separability by Piecewise Testable Languages	173
<i>Wojciech Czerwiński, Wim Martens, Lorijn van Rooijen, and Marc Zeitoun</i>	

Set Algorithms, Covering, and Traversal

Multidimensional Binary Vector Assignment Problem: Standard, Structural and Above Guarantee Parameterizations	189
<i>Marin Bougeret, Guillaume Duvillié, Rodolphe Giroudeau, and Rémi Watrigant</i>	
Incremental Complexity of a Bi-objective Hypergraph Transversal Problem	202
<i>Ricardo Andrade, Etienne Birmelé, Arnaud Mary, Thomas Picchetti, and Marie-France Sagot</i>	
Pairs Covered by a Sequence of Sets.	214
<i>Peter Damaschke</i>	
Recurring Comparison Faults: Sorting and Finding the Minimum	227
<i>Barbara Geissmann, Matúš Mihalák, and Peter Widmayer</i>	

Graph Algorithms and Networking Applications

Minimal Disconnected Cuts in Planar Graphs	243
<i>Marcin Kamiński, Daniël Paulusma, Anthony Stewart, and Dimitrios M. Thilikos</i>	
ϵ -Almost Selectors and Their Applications	255
<i>Annalisa De Bonis and Ugo Vaccaro</i>	
Derandomized Construction of Combinatorial Batch Codes	269
<i>Srimanta Bhattacharya</i>	
On the Mathematics of Data Centre Network Topologies	283
<i>Iain A. Stewart</i>	

Anonymity and Indistinguishability

Privacy in Elections: k -Anonymizing Preference Orders	299
<i>Nimrod Talmon</i>	

On Equivalences, Metrics, and Polynomial Time.	311
<i>Alberto Cappai and Ugo Dal Lago</i>	

Graphs, Automata, and Dynamics

Conjunctive Visibly-Pushdown Path Queries	327
<i>Martin Lange and Etienne Lozes</i>	
On the Power of Color Refinement	339
<i>V. Arvind, Johannes Köbler, Gaurav Rattan, and Oleg Verbitsky</i>	
Block Representation of Reversible Causal Graph Dynamics	351
<i>Pablo Arrighi, Simon Martiel, and Simon Perdrix</i>	

Logic and Games

Reasoning with Global Assumptions in Arithmetic Modal Logics	367
<i>Clemens Kupke, Dirk Pattinson, and Lutz Schröder</i>	
Nearest Fixed Points and Concurrent Priority Games	381
<i>Bruno Karelövic and Wiesław Zielonka</i>	

Author Index	395
-------------------------------	------------

Fundamentals of Computation Theory
20th International Symposium, FCT 2015, Gdańsk,
Poland, August 17-19, 2015, Proceedings
Kosowski, A.; Walukiewicz, I. (Eds.)
2015, XIX, 395 p. 61 illus., Softcover
ISBN: 978-3-319-22176-2