

Contents

Type Theory and Formalisation of Mathematics	1
<i>Thierry Coquand</i>	
Advances in Parameterized Verification of Population Protocols	7
<i>Javier Esparza</i>	
Verification of Quantum Computation and the Price of Trust	15
<i>Alexandru Gheorghiu, Theodoros Kapourniotis, and Elham Kashefi</i>	
Graph Sketching and Streaming: New Approaches for Analyzing Massive Graphs	20
<i>Andrew McGregor</i>	
Concatenation Hierarchies: New Bottle, Old Wine.	25
<i>Thomas Place and Marc Zeitoun</i>	
Can We Locally Compute Sparse Connected Subgraphs?	38
<i>Ronitt Rubinfeld</i>	
Palindromic Decompositions with Gaps and Errors	48
<i>Michał Adamczyk, Mai Alzamel, Panagiotis Charalampopoulos, Costas S. Iliopoulos, and Jakub Radoszewski</i>	
Cascade Heap: Towards Time-Optimal Extractions	62
<i>Maxim Babenko, Ignat Kolesnichenko, and Ivan Smirnov</i>	
Entropic Uniform Sampling of Linear Extensions in Series-Parallel Posets . . .	71
<i>Olivier Bodini, Matthieu Dien, Antoine Genitrini, and Frédéric Peschanski</i>	
Parameterized Counting of Trees, Forests and Matroid Bases	85
<i>Cornelius Brand and Marc Roth</i>	
Generalized Dyck Shifts.	99
<i>Marie-Pierre Béal and Pavel Heller</i>	
Green's Relations in Finite Transformation Semigroups	112
<i>Lukas Fleischer and Manfred Kufleitner</i>	
Nondeterministic Unitary OBDDs	126
<i>Aida Gainutdinova and Abuzer Yakaryilmaz</i>	
Unary Coded PSPACE-Complete Languages in ASPACE(loglog n)	141
<i>Viliam Geffert</i>	

Turing Degree Spectra of Minimal Subshifts	154
<i>Michael Hochman and Pascal Vanier</i>	
Reordering Method and Hierarchies for Quantum and Classical Ordered Binary Decision Diagrams	162
<i>Kamil Khadiev and Aliya Khadieva</i>	
Dynamic Stabbing Queries with Sub-logarithmic Local Updates for Overlapping Intervals	176
<i>Elena Khramtcova and Maarten Löffler</i>	
The Transformation Monoid of a Partially Lossy Queue	191
<i>Chris Köcher and Dietrich Kuske</i>	
Approximation Algorithms for the Maximum Carpool Matching Problem . . .	206
<i>Gilad Kutiel</i>	
The Conjugacy Problem in Free Solvable Groups and Wreath Products of Abelian Groups is in TC^0	217
<i>Alexei Miasnikov, Svetla Vassileva, and Armin Weiß</i>	
On Algorithmic Statistics for Space-Bounded Algorithms.	232
<i>Alexey Milovanov</i>	
Popularity in the Generalized Hospital Residents Setting	245
<i>Meghana Nasre and Amit Rawat</i>	
Edit Distance Neighbourhoods of Input-Driven Pushdown Automata	260
<i>Alexander Okhotin and Kai Salomaa</i>	
The (Minimum) Rank of Typical Fooling-Set Matrices	273
<i>Mozhgan Pourmoradnasseri and Dirk Oliver Theis</i>	
On Probabilistic Algorithm for Solving Almost All Instances of the Set Partition Problem	285
<i>Alexandr V. Seliverstov</i>	
Dag-Like Communication and Its Applications	294
<i>Dmitry Sokolov</i>	
The Descriptive Complexity of Subgraph Isomorphism Without Numerics . . .	308
<i>Oleg Verbitsky and Maksim Zhukovskii</i>	
On a Generalization of Horn Constraint Systems.	323
<i>Piotr Wojciechowski, R. Chandrasekaran, and K. Subramani</i>	
Author Index	337

Computer Science – Theory and Applications
12th International Computer Science Symposium in
Russia, CSR 2017, Kazan, Russia, June 8-12, 2017,
Proceedings
Weil, P. (Ed.)
2017, X, 337 p. 30 illus., Softcover
ISBN: 978-3-319-58746-2