

Table of Contents - Volume 1 - LNCS 9234

Invited Contributions

- Modular Reasoning for Behavior-Preserving Data Structure Refactorings .
Anindya Banerjee
- Minimal and Monotone Minimal Perfect Hash Functions
Paolo Boldi
- Equational properties of fixed point operations in cartesian categories.
An overview
Zoltan Esik
- Reversible and Irreversible Computations of Deterministic Finite-State
Devices
Martin Kutrib
- Robust Inference and Local algorithms
Yishay Mansour

Selected Contributions

- Uniform generation in trace monoids
Samy Abbes and Jean Mairesse
- When are prime formulae characteristic?
Luca Aceto, Dario Della Monica, Ignacio Fabregas and Anna Ingolfsdottir
- Stochastization of Weighted Automata
Guy Avni and Orna Kupferman
- Algebraic Synchronization Criterion and Computing Reset Words
Mikhail Berlinkov and Marek Szykula
- Recurrence function on Sturmian words: a probabilistic study
Valérie Berthé, Eda Cesaratto, Pablo Rotondo, Brigitte Vallée and Alfredo Viola
- Exponential-size Model Property for PDL with Separating Parallel
Composition
Joseph Boudou

A Circuit Complexity Approach to Transductions	<i>Michaël Cadilhac, Andreas Krebs, Michael Ludwig and Charles Paperman</i>
Locally Chain-Parsable Languages	<i>Stefano Crespi Reghizzi, Violetta Lonati, Dino Mandrioli and Matteo Pradella</i>
Classes of languages generated by the Kleene star of a word	<i>Laure Daviaud and Charles Paperman</i>
Relating paths in transition systems: the fall of the modal mu-calculus ...	<i>Catalin Dima, Bastien Maubert and Sophie Pinchinat</i>
Weighted Automata and Logics on Graphs	<i>Manfred Droste and Stefan Dück</i>
Longest Gapped Repeats and Palindromes	<i>Marius Dumitran and Florin Manea</i>
Quasiperiodicity and non-computability in tilings	<i>Bruno Durand and Andrei Romashchenko</i>
The transitivity problem of Turing machines	<i>Anahi Gajardo, Nicolas Ollinger and Rodrigo Torres-Avilés</i>
Strong inapproximability of the shortest reset word	<i>Pawel Gawrychowski and Damian Straszak</i>
Finitary semantics of linear logic and higher-order model-checking	<i>Charles Grellois and Paul-André Melliès</i>
Complexity of Propositional Independence and Inclusion Logic	<i>Miika Hannula, Juha Kontinen, Jonni Virtema and Heribert Vollmer</i>
Modal Inclusion Logic: Being Lax is Simpler than Being Strict	<i>Lauri Hella, Antti Kuusisto, Arne Meier and Heribert Vollmer</i>
Differential Bisimulation for a Markovian Process Algebra	<i>Giulio Iacobelli, Mirco Tribastone and Andrea Vandin</i>
On the Hardness of Almost-Sure Termination	<i>Benjamin Lucien Kaminski and Joost-Pieter Katoen</i>
Graphs Identified by Logics with Counting	<i>Sandra Kiefer, Pascal Schweitzer and Erkal Selman</i>
Synchronizing Automata with Extremal Properties	<i>Andrzej Kisielewicz and Marek Szykula</i>

Ratio and Weight Quantiles	<i>Daniel Kraehmann, Jana Schubert, Christel Baier and Clemens Dubslaff</i>
Precise Upper and Lower Bounds for the Monotone Constraint Satisfaction Problem	<i>Victor Lagerkvist</i>
Definability by Weakly Deterministic Regular Expressions with Counters is Decidable	<i>Markus Latte and Matthias Niewerth</i>
On the Complexity of Reconfiguration in Systems with Legacy Components	<i>Jacopo Mauro and Gianluigi Zavattaro</i>
Eliminating recursion from monadic datalog programs on trees	<i>Filip Mazowiecki, Joanna Ochremiak and Adam Witkowski</i>
Computability on the countable ordinals and the Hausdorff-Kuratowski theorem	<i>Arno Pauly</i>
Emergence on decreasing sandpile models	<i>Kévin Perrot and Eric Rémila</i>
Lost in Self-Stabilization	<i>Damien Regnault and Eric Rémila</i>
Equations and Coequations for Weighted Automata	<i>Julian Salamanca, Marcello Bonsangue and Jan Rutten</i>

Table of Contents - Volume 2 - LNCS 9235

Selected Contributions

- Near-optimal asymmetric binary matrix partitions
Fidaa Abed, Ioannis Caragiannis and Alexandros Voudouris
- Dual VP Classes
Eric Allender, Anna Gál and Ian Mertz
- On Tinhofer's Linear Programming Approach to Isomorphism Testing ...
V. Arvind, Johannes Köbler, Gaurav Rattan and Oleg Verbitsky
- On the Complexity of Noncommutative Polynomial Factorization
V. Arvind, Gaurav Rattan and Pushkar Joglekar
- An algebraic proof of the real number PCP theorem
Martijn Baartse and Klaus Meer
- On the Complexity of Hub Labeling
Maxim Babenko, Andrew Goldberg, Haim Kaplan, Ruslan Savchenko and Mathias Weller
- On the Complexity of Speed Scaling
Neal Barcelo, Peter Kling, Michael Nugent, Kirk Pruhs and Michele Scquizzato
- Almost All Functions Require Exponential Energy
Neal Barcelo, Michael Nugent, Kirk Pruhs and Michele Scquizzato
- On Dynamic DFS Tree in Directed Graphs
Surender Baswana and Keerti Choudhary
- Metric Dimension of Bounded Width Graphs
Remy Belmonte, Fedor Fomin, Petr Golovach and M.S. Ramanujan
- Equality, Revisited
Ralph Bottesch, Dmitry Gavinsky and Hartmut Klauck
- Bounding the Clique-Width of H-free Chordal Graphs
Andreas Brandstädt, Konrad Kazimierz Dabrowski, Shenwei Huang and Daniël Paulusma
- New Bounds for the CLIQUE-GAP Problem using Graph
Decomposition Theory
Vladimir Braverman, Zaoxing Liu, Tejasvram Singh, N.V. Vinodchandran and Lin Yang

QMA with subset state witnesses	<i>Alex Bredariol Grilo, Iordanis Kerenidis and Jamie Sikora</i>
Phase transition for Local Search on planted SAT	<i>Andrei Bulatov and Evgeny Skvortsov</i>
Optimal Bounds for Estimating Entropy with PMF Queries	<i>Cafer Caferov, Barış Kaya, Ryan O'Donnell and A.C. Cem Say</i>
Mutual Dimension and Random Sequences	<i>Adam Case and Jack H. Lutz</i>
Optimal Algorithms and a PTAS for Cost-Aware Scheduling	<i>Lin Chen, Nicole Megow, Roman Rischke, Leen Stougie and José Verschae</i>
Satisfiability Algorithms and Lower Bounds for Boolean Formulas over Finite Bases	<i>Ruiwen Chen</i>
Randomized Polynomial Time Protocol for Combinatorial Slepian-Wolf Problem	<i>Daniyar Chumbalov and Andrei Romashchenko</i>
Network Creation Games: Think Global - Act Local	<i>Andreas Cord-Landwehr and Pascal Lenzner</i>
Oblivious Transfer from weakly Random Self-Reducible Public-Key Cryptosystem	<i>Claude Crépeau and Raza Ali Kazmi</i>
Efficient Computations over Encrypted Data Blocks	<i>Giovanni Di Crescenzo, Brian Coan and Jonathan Kirsch</i>
Polynomial Kernels for Weighted Problems	<i>Michael Etscheid, Stefan Kratsch, Matthias Mnich and Heiko Röglin</i>
A shortcut to (sun)flowers: Kernels in logarithmic space or linear time ...	<i>Stefan Fafianie and Stefan Kratsch</i>
Metastability of Asymptotically Well-Behaved Potential Games	<i>Diodato Ferraioli and Carmine Ventre</i>
The shifted partial derivative complexity of Elementary Symmetric Polynomials	<i>Hervé Fournier, Nutan Limaye, Meena Mahajan and Srikanth Srinivasan</i>

Parameterized Algorithms for Parity Games	<i>Jakub Gajarský, Michael Lampis, Kazuhisa Makino, Valia Mitsou and Sebastian Ordyniak</i>
Algorithmic Applications of Tree-Cut Width	<i>Robert Ganian, Eun Jung Kim and Stefan Szeider</i>
Log-concavity and lower bounds for arithmetic circuits.....	<i>Ignacio García-Marco, Pascal Koiran and Sébastien Tavenas</i>
Easy Multiple-Precision Divisors and Word-RAM Constants.....	<i>Torben Hagerup</i>
Visibly Counter Languages and the Structure of NC1.....	<i>Michael Hahn, Andreas Krebs, Klaus-Jörn Lange and Michael Ludwig</i>
The Price of Connectivity for Cycle Transversals	<i>Tatiana Romina Hartinger, Matthew Johnson, Martin Milanič and Daniël Paulusma</i>
Upper and Lower Bounds on Long Dual Paths in Line Arrangements	<i>Udo Hoffmann, Linda Kleist and Tillmann Miltzow</i>
A numbers-on-foreheads game	<i>Sune K. Jakobsen</i>
Faster lightweight Lempel-Ziv parsing	<i>Dmitry Kosolobov</i>
Parallel Identity Testing for Skew Circuits with Big Powers and Applications.....	<i>Daniel König and Markus Lohrey</i>
On Probabilistic Space-Bounded Machines with Multiple Access to Random Tape	<i>Debasis Mandal, A Pavan and Vinodchandran Variyam</i>
Densest Subgraph in Dynamic Graph Streams	<i>Andrew McGregor, David Tench, Sofya Vorotnikova and Hoa Vu</i>
The Offline Carpool Problem Revisited	<i>Saad Mneimneh and Saman Farhat</i>
On Sampling Simple Paths in Planar Graphs According to Their Lengths	<i>Sandro Montanari and Paolo Penna</i>
Degree-constrained Subgraph Reconfiguration is in P	<i>Moritz Mühlenthaler</i>

Generalized Pseudoforest Deletion: Algorithms and Uniform Kernel	
	<i>Geevarghese Philip, Ashutosh Rai and Saket Saurabh</i>
Efficient Equilibria in Polymatrix Coordination Games	
	<i>Mona Rahn and Guido Schäfer</i>
Finding Consensus Strings With Small Length Difference Between Input and Solution Strings	
	<i>Markus L. Schmid</i>
Active Linking Attacks	
	<i>Henning Schnoor and Oliver Woizekowski</i>
On the complexity of master problems	
	<i>Martijn van Ee and René Sitters</i>
Efficient Algorithm for Computing All Low s-t Edge Connectivities in Directed Graphs	
	<i>Xiaowei Wu and Chenzi Zhang</i>
Maximum Minimal Vertex Cover Parameterized by Vertex Cover	
	<i>Meirav Zehavi</i>
Fast Dynamic Weight Matchings in Convex Bipartite Graphs	
	<i>Quan Zu, Miaomiao Zhang and Bin Yu</i>