

Table of Contents

Invited Talks

Extreme Nash Equilibria	1
<i>Martin Gairing, Thomas Lücking, Marios Mavronicolas, Burkhard Monien, and Paul Spirakis</i>	
Certification of Memory Usage	21
<i>Martin Hofmann</i>	
On Programming Models for Mobility	22
<i>G�rard Boudol</i>	

Program Design, Models and Analysis

On the Computational Complexity of Cut-Elimination in Linear Logic	23
<i>Harry G. Mairson and Kazushige Terui</i>	
A Constructive Proof of the Soundness of the Encoding of Random Access Machines in a Linda Calculus with Ordered Semantics	37
<i>Claudio Sacerdoti Coen</i>	
Finite Horizon Analysis of Stochastic Systems with the Mur� Verifier	58
<i>Giuseppe Della Penna, Benedetto Intrigila, Igor Melatti, Enrico Tronci, and Marisa Venturini Zilli</i>	
Towards Compact and Tractable Automaton-Based Representations of Time Granularities	72
<i>Ugo Dal Lago, Angelo Montanari, and Gabriele Puppis</i>	
Lower Bounds on the Size of Quantum Automata Accepting Unary Languages	86
<i>Alberto Bertoni, Carlo Mereghetti, and Beatrice Palano</i>	
Refined Effects for Unanticipated Object Re-classification: \mathcal{Fickle}_3	97
<i>Ferruccio Damiani, Sophia Drossopoulou, and Paola Giannini</i>	

Algorithms and Complexity

Cost Constrained Fixed Job Scheduling	111
<i>Qiwei Huang and Errol Lloyd</i>	
A Work-Optimal Coarse-Grained PRAM Algorithm for Lexicographically First Maximal Independent Set	125
<i>Jens Gustedt and Jan Arne Telle</i>	

An Approximation Algorithm for the Minimum Weight Vertex-Connectivity Problem in Complete Graphs with Sharpened Triangle Inequality	137
<i>Alessandro Ferrante and Mimmo Parente</i>	
Channel Assignment in Honeycomb Networks	150
<i>Alan A. Bertossi, Cristina M. Pinotti, Romea Rizzi, and Anil M. Shende</i>	
Exact Solution of a Class of Frequency Assignment Problems in Cellular Networks	163
<i>Tiziana Calamoneri</i>	
The Complexity of Checking Consistency of Pedigree Information and Related Problems	174
<i>Luca Aceto, Jens A. Hansen, Anna Ingólfssdóttir, Jacob Johnsen, and John Knudsen</i>	
On Clausal Equivalence and Hull Inclusion	188
<i>K. Subramani</i>	
Semantics and Formal Languages	
Logical Semantics for the First Order ς -Calculus	202
<i>Steffen van Bakel and Ugo de'Liguoro</i>	
On the Expressive Power of Light Affine Logic	216
<i>Ugo Dal Lago</i>	
Reasoning about Self and Others: Communicating Agents in a Modal Action Logic	228
<i>Matteo Baldoni, Cristina Baroglio, Alberto Martelli, and Viviana Patti</i>	
Decidability Properties of Recursive Types	242
<i>Felice Cardone and Mario Coppo</i>	
Algebraic Theories for Contextual Pre-nets	256
<i>Roberto Bruni, José Meseguer, Ugo Montanari, and Vladimiro Sassone</i>	
A Coalgebraic Description of Web Interactions	271
<i>Daniela Cancila and Furio Honsell</i>	
A Calculus for Dynamic Linking	284
<i>Davide Ancona, Sonia Fagorzi, and Elena Zucca</i>	
Towards a Smart Compilation Manager for Java	302
<i>Giovanni Lagorio</i>	

Security and Cryptography

Anonymous Group Communication in Mobile Networks	316
<i>Stelvio Cimato, Paolo D'Arco, and Ivan Visconti</i>	
Aspects of Pseudorandomness in Nonlinear Generators of Binary Sequences	329
<i>Amparo Fúster-Sabater</i>	
An Information-Theoretic Approach to the Access Control Problem	342
<i>Anna Lisa Ferrara and Barbara Masucci</i>	
Security-Aware Program Transformations	355
<i>Massimo Bartoletti, Pierpaolo Degano, and Gian Luigi Ferrari</i>	
Information Flow Security and Recursive Systems	369
<i>Annalisa Bossi, Damiano Macedonio, Carla Piazza, and Sabina Rossi</i>	
Compositional Verification of Secure Streamed Data: A Case Study with EMSS	383
<i>Fabio Martinelli, Marinella Petrocchi, and Anna Vaccarelli</i>	
Author Index	397



<http://www.springer.com/978-3-540-20216-5>

Theoretical Computer Science

8th Italian Conference, ICTCS 2003, Bertinoro, Italy,

October 13-15, 2003, Proceedings

Blundo, C.; Laneve, C. (Eds.)

2003, XII, 400 p., Softcover

ISBN: 978-3-540-20216-5