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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4783
Disciplina	006.31
Soggetti	Artificial intelligence Computer science Algorithms Machine theory Artificial Intelligence Theory of Computation Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Spiking Neural P Systems Used as Acceptors and Transducers -- Linear-Time Model Checking: Automata Theory in Practice -- OpenFst: A General and Efficient Weighted Finite-State Transducer Library -- Automata Applications in Chip-Design Software -- Contributed Talks -- Synchronizing Automata Preserving a Chain of Partial Orders -- Reducing Acyclic Cover Transducers -- On-the-Fly Stuttering in the Construction of Deterministic ?-Automata -- Average Value and Variance of Pattern Statistics in Rational Models -- Weighted Automata and Weighted Logics with Discounting -- Regulated Nondeterminism in Pushdown Automata -- Deterministic Caterpillar Expressions -- Backward and Forward Bisimulation Minimisation of Tree Automata -- An Implementation of Deterministic Tree Automata Minimization -- Accelerating Boyer Moore Searches on Binary Texts -- On the Suffix Automaton with Mismatches -- On String Matching in

Chunked Texts -- Factor Automata of Automata and Applications --
 Subset Seed Automaton -- A Measure for the Degree of
 Nondeterminism of Context-Free Languages -- Efficient Computation
 of Throughput Values of Context-Free Languages -- Analyzing
 Ambiguity of Context-Free Grammars -- Efficient Enumeration of
 Regular Languages -- Multi-grain Relations -- Memory Reduction for
 Strategies in Infinite Games -- Syntax-Directed Translations and
 Quasi-alphabetic Tree Bimorphisms -- Finite State Automata
 Representing Two-Dimensional Subshifts -- Tiling Automaton: A
 Computational Model for Recognizable Two-Dimensional Languages --
 Poster Abstracts -- REGAL: A Library to Randomly and Exhaustively
 Generate Automata -- A Finite-State Super-Chunker -- The
 Constrained Longest Common Subsequence Problem for Degenerate
 Strings -- Finite Automata Accepting Star-Connected Languages --
 Efficiently Matching with Local Grammars Using Prefix Overlay
 Transducers -- Significant Subpatterns Matching -- A New Method for
 Compiling Parallel Replacement Rules.

Sommario/riassunto

The 12th International Conference on Implementation and Application
 of -tomata CIAA 2007 was held at the Czech Technical University in
 Prague, Czech Republic on July 16–18, 2007. These proceedings contain
 the papers that were presented at CIAA 2007, as well as the abstracts
 of the poster papers that were displayed during the conference. The
 proceedings also include the abstracts and extended abstracts
 of four invited lectures presented by Gheorghe Păun, Michael Riley,
 Moshe Vardi, and Bruce W. Watson. The 23 regular papers and 7 poster
 papers were selected from 79 submitted papers covering various topics
 in the theory, implementation, and application of
 automata and related structures. Each submitted paper
 was reviewed by at least three Program Committee members, with the
 assistance of referees. The authors of the papers presented here come
 from the following countries: Canada, Czech Republic, Denmark,
 Finland, France, Germany, Greece, Israel, Italy, Poland, Romania, Russia,
 South Africa, Spain, Sweden, UK, and USA. We wish to thank all those
 who made this meeting possible: the authors for submitting papers, the
 Program Committee members and external referees (listed on pages VII
 and VIII) for their excellent work, and last but not least our four invited
 speakers. Finally, we wish to express our sincere appreciation to the
 sponsors and local organizers.