

1. Record Nr.	UNISA996465850303316
Titolo	Implementation and Application of Automata [[electronic resource]] : 14th International Conference, CIAA 2009, Sydney, Australia, July 14-17, 2009, Proceedings / / edited by Sebastian Maneth
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	1-282-29795-3 9786612297953 3-642-02979-5
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (XI, 263 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5642
Disciplina	005.11
Soggetti	Computer programming Computer science Algorithms Machine theory Electronic digital computers—Evaluation Programming Techniques Theory of Computation Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory System Performance and Evaluation
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 Lectures -- Implementation and Application of Automata in String Processing -- Applications of Automata in XML Processing -- Program Analysis through Finite Tree Automata -- Technical Contributions -- An nlogn Algorithm for Hyper-minimizing States in a (Minimized) Deterministic Automaton -- On Extremal Cases of Hopcroft's Algorithm -- Compact Normal Form for Regular Languages as Xor Automata -- Cellular Automata with Sparse Communication -- A Cellular Automaton Model for Car Traffic with a Slow-to-Stop Rule -- On Parallel Implementations of Deterministic Finite Automata -- FAdo

and GULTar -- A Testing Framework for Finite-State Morphology -- A
 Table Compression Method for Extended Aho-Corasick Automaton --
 Compact Representation for Answer Sets of n-ary Regular Queries --
 Recognition of a Spanning Tree of Directed Acyclic Graphs by Tree
 Automata -- Random Generation of Deterministic Tree (Walking)
 Automata -- Hedge Pattern Partial Derivative -- TAGED
 Approximations for Temporal Properties Model-Checking -- Verifying
 Parallel Programs with Dynamic Communication Structures -- Fixpoint
 Guided Abstraction Refinement for Alternating Automata -- Automata-
 Based Termination Proofs -- Implementation of State Elimination Using
 Heuristics -- Short Regular Expressions from Finite Automata:
 Empirical Results -- Small Extended Expressions for Acyclic Automata
 -- Quantum Queries on Permutations with a Promise -- Time-Optimal
 Winning Strategies for Poset Games -- Amount of Nonconstructivity in
 Finite Automata -- Short Papers and Poster Abstracts -- Multiflex: A
 Multilingual Finite-State Tool for Multi-Word Units -- Efficient Parsing
 Using Filtered-Popping Recursive Transition Networks -- Forest FIRE: A
 Taxonomy-based Toolkit of Tree Automata and Regular Tree
 Algorithms -- Formally Synthesising a Protocol Converter: A Case Study
 -- Compiler Generator Based on Restarting Automata -- Are
 Statecharts Finite Automata?.

Sommario/riassunto

This book constitutes the thoroughly refereed papers of the 14th
 International Conference on Implementation and Application of
 Automata, CIAA 2009, held in Sydney, Australia, in July 2009. The 23
 revised full papers together with 6 short papers were carefully selected
 from 42 submissions. The papers cover various topics in the theory,
 implementation, and applications of automata and related structures.
