1. Record Nr.   UNINA9910143877903321

   Titolo   Implementation and Application of Automata : 7th International
                       Conference, CIAA 2002, Tours, France, July 3-5, 2002, Revised Papers /
                       / edited by Jean-Marc Champarnaud, Denis Maurel

   Pubbl/distr/stampa   Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer,
                       , 2003

   ISBN   3-540-44977-9

   Edizione   [1st ed. 2003.]

   Descrizione fisica   1 online resource (XI, 310 p.)

   Collana   Lecture Notes in Computer Science, , 0302-9743 ; ; 2608

   Disciplina   004

   Soggetti   Artificial intelligence
                       Computers
                       Algorithms
                       Computer logic
                       Logic, Symbolic and mathematical
                       Artificial Intelligence
                       Computation by Abstract Devices
                       Algorithm Analysis and Problem Complexity
                       Logics and Meanings of Programs
                       Mathematical Logic and Formal Languages

   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 at the end of each chapters and
                       index.

   Nota di contenuto   Invited Lecture -- Edit-Distance of Weighted Automata -- Technical
                       Contributions -- p-Subsequentiable Transducers -- Bidirectional Push
                       Down Automata -- Finite Automata and Non-self-Embedding
                       Grammars -- Simulation of Gate Circuits in the Algebra of Transients
                       -- The Number of Similarity Relations and the Number of Minimal
                       Deterministic Finite Cover Automata -- Regex and Extended Regex --
                       Prime Decompositions of Regular Prefix Codes -- Implementation of
                       Dictionaries via Automata and Decision Trees -- Feedback-Free
                       Circuits in the Algebra of Transients -- On Minimizing Cover Automata
                       for Finite Languages in $O(n \log n)$ Time -- Compilation of Constraint-
                       Based Contextual Rules for Part-of-Speech Tagging into Finite State

Transducers -- Finite State Lazy Operations in NLP -- State Complexity of Basic Operations on Nondeterministic Finite Automata -- Adaptive Automata - A Revisited Proposal -- Efficient Automaton-Based Recognition for Linear Conjunctive Languages -- Syntactic Semiring and Language Equations -- Reduced Power Automata -- A Polynomial Time Algorithm for Left [Right] Local Testability -- Whale Calf, a Parser Generator for Conjunctive Grammars -- automata, a Hybrid System for Computational Automata Theory -- A Package TESTAS for Checking Some Kinds of Testability -- DAWG versus Suffix Array -- On Predictive Parsing and Extended Context-Free Grammars -- Star Normal Form, Rational Expressions, and Glushkov WFAs Properties -- Comparison of Construction Algorithms for Minimal, Acyclic, Deterministic, Finite-State Automata from Sets of Strings -- Term Validation of Distributed Hard Real-Time Applications -- Common Subsequence Automaton -- Searching for Asymptotic Error Repair -- Abstracts -- Automata-Based Representations for Arithmetic Constraints in Automated Verification -- On the Implementation of Compact DAWG's -- Dynamic Programming — NFA Simulation -- Deterministic Parsing of Cyclic Strings.

| Sommario/riassunto | The refereed post-proceedings of the 7th International Conference on Implementation and Application of Automata, CIAA 2002, held in Tours, France, in July 2002. The 28 revised full papers presented together with an invited paper and 4 short papers were carefully selected during two rounds of reviewing and revision. The topics addressed range from theoretical and methodological issues to automata applications in software engineering, natural language processing, speech recognition, and image processing, to new representations and algorithms for efficient implementation of automata and related structures. |