Record Nr. UNINA9910144027103321 Implementation and Application of Automata: 8th International **Titolo** Conference, CIAA 2003, Santa Barbara, CA, USA, July 16-18, 2003. Proceedings / / edited by Oscar H. Ibarra, Zhe Dang Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer, Pubbl/distr/stampa 2003 **ISBN** 3-540-45089-0 1-4175-6477-6 Edizione [1st ed. 2003.] Descrizione fisica 1 online resource (XI, 312 p.) Collana Lecture Notes in Computer Science, , 0302-9743 ; ; 2759 Disciplina 004.0151 Soggetti Artificial intelligence Computers Computer science Algorithms Computer logic Mathematical logic Artificial Intelligence Computation by Abstract Devices Computer Science, general 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 contenuto Invited Lectures -- Automata for Specifying Component Interfaces --Automata on Words -- Regular Papers -- Symbolic Synthesis of Finite-State Controllers for Request-Response Specifications -- Timing Parameter Characterization of Real-Time Systems -- Constructing Büchi Automata from Linear Temporal Logic Using Simulation Relations for Alternating Büchi Automata -- From Regular Weighted Expressions to Finite Automata -- Bideterministic Automata and Minimal

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Sommario/riassunto

Automata theory is the foundation of computer science. Its applications have spread to almost all areas of computer science and many other disciplines. In addition, there is a growing number of software systems designed to manipulate automata, regular expressions, grammars, and related structures. This volume contains 24 regular papers from the 8th International Conference on Implementation and Application of Automata (CIAA 2003) held in Santa Barbara, CA, USA, in July 2003 covering various topics in the theory, implementation, and application of automata and related structures. It also includes the abstracts of two invited lectures as well as the abstracts of the poster papers displayed during the conference.