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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1260
Disciplina	511.3
Soggetti	Programming languages (Electronic computers) Mathematical logic Architecture, Computer Computer logic Computers Programming Languages, Compilers, Interpreters Mathematical Logic and Foundations Computer System Implementation Mathematical Logic and Formal Languages Logics and Meanings of Programs Computation by Abstract Devices
Lingua di pubblicazione	Inglese
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	WIA and the practice of theory in computer science -- Algorithms for guided tree automata -- Time series forecasting by finite-state automata -- Dynamical implementation of nondeterministic automata and concurrent systems -- Implementing WS1S via finite automata -- Instruction computation in subset construction -- Building automaton on schemata and acceptability tables -- FSA utilities: A toolbox to manipulate finite-state automata -- A new quadratic algorithm to convert a regular expression into an automaton -- Implementing sequential and parallel programs for the homing sequence problem -- Integrating hands-on work into the formal languages course via tools

and programming -- NFA to DFA transformation for finite languages --  
How to use sorting procedures to minimize DFA -- FIRE Lite: FAs and  
REs in C++.

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Sommario/riassunto

This book constitutes the strictly refereed post-workshop proceedings of the First International Workshop on Implementing Automata, WIA'96, held in London, Ontario, Canada, in August 1996. The volume presents 13 revised full papers together with an introduction and survey. The papers explore the use of software tools in formal language theory; various issues involved in the implementation of automata of all types are discussed. As the first book focusing on implementing automata, this collection of research papers defines the state of the art in the area. Generally speaking, the book advocates the practice of theory in computer science.

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