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Nota di contenuto	Intro -- Preface -- Organization -- Invited Papers -- Automata and Logics for Concurrent Systems:Five Models in Five Pages -- Resource Automatic Structures for Verificationof Boundedness Properties -- Finite-State Technologyin Natural Language Processing -- Hardware Implementationsof Finite Automata and Regular Expressions -- Contents -- Invited Papers -- Automata and Logics for Concurrent Systems: Five Models in Five Pages -- 1 Introduction -- 2 Finite Automata -- 3 Class Memory Automata -- 4 Nested-Word Automata -- 5 Asynchronous Automata -- 6 Message-Passing Automata -- 7 Conclusion -- References -- Hardware Implementations of Finite Automata and Regular Expressions -- 1 Introduction -- 2 Typical

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Sommario/riassunto

This book constitutes the refereed proceedings of the 20th International Conference on Implementation and Application of Automata, CIAA 2015, held in Umeå, Sweden, in August 2015. The 22 revised full papers presented together with 4 invited papers and 2 tool demonstration papers were carefully reviewed and selected from 49 submissions. The papers cover all aspects of cover automata, counter automata, decision algorithms on automata, descriptive complexity, expressive power of automata, homing sequences, jumping finite automata, multi-dimensional languages, parsing and pattern matching, quantum automata, realtime pushdown automata, random generation of automata, regular expressions, security issues, sensors in automata, transducers, transformation of automata, and weighted automata.
