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Soggetti	Computer science Machine theory Artificial intelligence Database management Computers, Special purpose Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory Artificial Intelligence Database Management Special Purpose and Application-Based Systems
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	A General Framework for Sequential Grammars with Control Mechanisms -- Low-Complexity Tilings of the Plane -- Union-Freeness, Deterministic Union-Freeness and Union-Complexity -- Limited Automata: Properties, Complexity and Variants -- Nondeterministic Right One-Way Jumping Finite Automata -- State Complexity of Single-Word Pattern Matching in Regular Languages -- Square, Power, Positive Closure, and Complementation on Star-Free Languages -- Descriptive Complexity of Matrix Simple Semi-Conditional Grammars -- Regulated Tree Automata -- Generalized de Bruijn Words and the State Complexity of Conjugate Sets -- The

Syntactic Complexity of Semi-Flower Languages -- Limited
Nondeterminism of Input-Driven Pushdown Automata Decidability and
Complexity -- Computability on Quasi-Polish Spaces -- NFA-to-DFA
Trade-Off for Regular Operations -- State Complexity of Simple
Splicing -- Nondeterminism Growth and State Complexity --
Descriptive Complexity of Iterated Uniform Finite State Transducers
-- On Classes of Regular Languages Related to Monotone WQOs --
State Complexity of GF(2)-Concatenation and GF(2)-Inverse on Unary
Languages -- Pushdown Automata and Constant Height: Decidability
and Bounds -- On the Decidability of Finding a Positive ILP-Instance in
a Regular Set of ILP-Instances -- How Does Adiabatic Quantum
Computation Fit into Quantum Automata Theory. .

Sommario/riassunto

This book constitutes the proceedings of the 21st International
Conference on Descriptive Complexity of Format Systems, DCFS
2019, held in Košice, Slovakia, in July 2019. The 18 full papers
presented in this volume were carefully reviewed and selected from 25
submissions. The book also contains 4 invited talks. They deal with all
aspects of descriptive complexity and costs of description of objects
in various computational models, such as Turing machines, pushdown
automata, finite automata, grammars, and others. .
