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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 10792
Disciplina	511.3
Soggetti	Computer science Machine theory Algorithms Computer programming Artificial intelligence Computer science - Mathematics Mathematical statistics Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory Programming Techniques Artificial Intelligence Probability and Statistics in Computer Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Underlying principles and recurring ideas of formal grammars -- Sliding Window Algorithms for Regular Languages -- Reshaping the context-free model: linguistic and algorithmic aspects -- Disturbance Decoupling in Finite Automata -- On the synchronization of planar automata -- Event-Clock Nested Automata -- On Periodicity Lemma for Partial Words -- Bubble-Flip - A New Generation Algorithm for

Prefix Normal Words -- Pomsets and Unfolding of Reset Petri Nets -- Over-Approximative Petri Net Synthesis for Restricted Subclasses of Nets -- Measuring Closeness between Cayley Automatic Groups and Automatic Groups -- Permutations sorted by a finite and an infinite stack in series -- Analytic combinatorics of lattice paths with forbidden patterns: enumerative aspects -- Deciding regular intersection emptiness of complete problems for PSPACE and the polynomial hierarchy -- Descriptive and computational complexity of the circuit representation of finite automata -- Model Learning as a Satisfiability Modulo Theories Problem -- Default Logic and Bounded Treewidth -- General Class of Monoids Supporting Canonisation and Minimisation of (Sub)sequential Transducers -- Learners Based on Transducers -- Handling ties correctly and efficiently in Viterbi training using the Viterbi semiring -- Formal languages over $GF(2)$ -- Timed Comparisons of Semi-Markov Processes -- Efficient Translation with Linear Bimorphisms.

Sommario/riassunto

This book constitutes the refereed proceedings of the 12th International Conference on Language and Automata Theory and Applications, LATA 2018, held in Ramat Gan, Israel, in April 2018. The 20 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 58 submissions. The papers cover fields like algebraic language theory, algorithms for semi-structured data mining, algorithms on automata and words, automata and logic, automata for system analysis and programme verification, automata networks, automatic structures, codes, combinatorics on words, computational complexity, concurrency and Petri nets, data and image compression, descriptive complexity, foundations of finite state technology, foundations of XML, grammars (Chomsky hierarchy, contextual, unification, categorial, etc.), grammatical inference and algorithmic learning, graphs and graph transformation, language varieties and semigroups, language-based cryptography, mathematical and logical foundations of programming methodologies, parallel and regulated rewriting, parsing, patterns, power series, string processing algorithms, symbolic dynamics, term rewriting, transducers, trees, tree languages and tree automata, and weighted automata.
