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Disciplina	004.015113 004
Soggetti	Computer science Computer science—Mathematics Discrete mathematics Algorithms Computer arithmetic and logic units Artificial intelligence—Data processing Artificial intelligence Computer Science Logic and Foundations of Programming Discrete Mathematics in Computer Science Arithmetic and Logic Structures Data Science Artificial Intelligence
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Approximability and Inapproximability for Maximum k-Edge-Colored Clustering Problem -- The Non-Hardness of Approximating Circuit Size -- Reconstructing a convex polygon from its omega-cloud -- A Space-efficient Parameterized Algorithm for the Hamiltonian Cycle Problem by Dynamic Algebraization -- Quantum Algorithm for Distribution-Free Junta Testing -- On Induced Online Ramsey Number of Paths, Cycles,

and Trees -- Approximations of Schatten Norms via Taylor Expansions -- Nearly Linear Time Isomorphism Algorithms for Some Nonabelian Group Classes -- Belga B-trees -- Eventually dendric shifts -- On Decidability of Regular Languages Theories -- Minimizing Branching Vertices in Distance-preserving Subgraphs -- On Tseitin formulas, read-once branching programs and treewidth -- Matched instances of Quantum Sat (QSat) - Product state solutions of Restrictions -- Notes on resolution over linear equations -- Undecidable word problem in subshift automorphism groups -- Parameterized Complexity of Conflict-Free Set Cover -- Forward Looking Huffman Coding -- Computational Complexity of Real Powering and Improved Solving Linear Differential Equations -- On the Quantum and Classical Complexity of Solving Subtraction Games -- Derandomization for sliding window algorithms with strict correctness -- On the Complexity of Restarting -- On the Complexity of Mixed Dominating Set -- Uniform CSP Parameterized by Solution Size is in  $W[1]$  -- On the Parameterized Complexity of Edge-Linked Paths -- The Parameterized Complexity of Dominating Set and Friends Revisited -- Transition property for cube-free words -- A Polynomial Time Delta-Decomposition Algorithm for Positive DNFs -- Unpopularity Factor in the Marriage and Roommates Problems -- AND Protocols Using Only Uniform Shuffles -- Sybil-Resilient Conductance-Based Community Expansion.

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#### Sommario/riassunto

This book constitutes the proceedings of the 14th International Computer Science Symposium in Russia, CSR 2019, held in Novosibirsk, Russia, in July 2019. The 31 full papers were carefully reviewed and selected from 71 submissions. The papers cover a wide range of topics such as algorithms and data structures; computational complexity; randomness in computing; approximation algorithms; combinatorial optimization; constraint satisfaction; computational geometry; formal languages and automata; codes and cryptography; combinatorics in computer science; applications of logic to computer science; proof complexity; fundamentals of machine learning; and theoretical aspects of big data.

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