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Nota di contenuto	Invited Talks -- A Core Calculus for Scala Type Checking -- Tree Exploration with an Oracle -- Distributed Data Structures: A Survey on Informative Labeling Schemes -- From Deduction Graphs to Proof Nets: Boxes and Sharing in the Graphical Presentation of Deductions -- The Structure of Tractable Constraint Satisfaction Problems -- On the Representation of Kleene Algebras with Tests -- From Three Ideas in TCS to Three Applications in Bioinformatics -- Contributed Papers -- Decompositions, Partitions, and Coverings with Convex Polygons and Pseudo-triangles -- Approximate Shortest Path Queries on Weighted Polyhedral Surfaces -- A Unified Construction of the Glushkov, Follow, and Antimirov Automata -- Algebraic Characterizations of Unitary

Linear Quantum Cellular Automata -- A Polynomial Time Nilpotence Test for Galois Groups and Related Results -- The Multiparty Communication Complexity of Exact-T: Improved Bounds and New Problems -- Crochemore Factorization of Sturmian and Other Infinite Words -- Equations on Partial Words -- Concrete Multiplicative Complexity of Symmetric Functions -- On the Complexity of Limit Sets of Cellular Automata Associated with Probability Measures -- Coloring Random 3-Colorable Graphs with Non-uniform Edge Probabilities -- The Kleene Equality for Graphs -- On the Repetition Threshold for Large Alphabets -- Improved Parameterized Upper Bounds for Vertex Cover -- On Comparing Sums of Square Roots of Small Integers -- A Combinatorial Approach to Collapsing Words -- Optimal Linear Arrangement of Interval Graphs -- The Lempel-Ziv Complexity of Fixed Points of Morphisms -- Partially Commutative Inverse Monoids -- Learning Bayesian Networks Does Not Have to Be NP-Hard -- Lower Bounds for the Transition Complexity of NFAs -- Smart Robot Teams Exploring Sparse Trees -- k-Sets of Convex Inclusion Chains of Planar Point Sets -- Toward the Eigenvalue Power Law -- Multicast Transmissions in Non-cooperative Networks with a Limited Number of Selfish Moves -- Very Sparse Leaf Languages -- On the Correlation Between Parity and Modular Polynomials -- Optimally Fast Data Gathering in Sensor Networks -- Magic Numbers in the State Hierarchy of Finite Automata -- Online Single Machine Batch Scheduling -- Machines that Can Output Empty Words -- Completeness of Global Evaluation Logic -- NOF-Multiparty Information Complexity Bounds for Pointer Jumping -- Dimension Characterizations of Complexity Classes -- Approximation Algorithms and Hardness Results for Labeled Connectivity Problems -- An Expressive Temporal Logic for Real Time -- On Matroid Representability and Minor Problems -- Non-cooperative Tree Creation -- Guarantees for the Success Frequency of an Algorithm for Finding Dodgson-Election Winners -- Reductions for Monotone Boolean Circuits -- Generalised Integer Programming Based on Logically Defined Relations -- Probabilistic Length-Reducing Automata -- Sorting Long Sequences in a Single Hop Radio Network -- Systems of Equations over Finite Semigroups and the #CSP Dichotomy Conjecture -- Valiant's Model: From Exponential Sums to Exponential Products -- A Reachability Algorithm for General Petri Nets Based on Transition Invariants -- Approximability of Bounded Occurrence Max Ones -- Fast Iterative Arrays with Restricted Inter-cell Communication: Constructions and Decidability -- Faster Algorithm for Bisimulation Equivalence of Normed Context-Free Processes -- Quantum Weakly Nondeterministic Communication Complexity -- Minimal Chordal Sense of Direction and Circulant Graphs -- Querying and Embedding Compressed Texts -- Lempel-Ziv Dimension for Lempel-Ziv Compression -- Characterizing Valiant's Algebraic Complexity Classes -- The Price of Defense -- The Data Complexity of MDataLog in Basic Modal Logics -- The Complexity of Counting Functions with Easy Decision Version -- On Non-Interactive Zero-Knowledge Proofs of Knowledge in the Shared Random String Model -- Constrained Minimum Enclosing Circle with Center on a Query Line Segment -- Hierarchical Unambiguity -- An Efficient Algorithm Finds Noticeable Trends and Examples Concerning the ?erny Conjecture -- On Genome Evolution with Innovation.

Sommario/riassunto

This book constitutes the refereed proceedings of the 31st International Symposium on Mathematical Foundations of Computer Science, MFCS 2006. The book presents 62 revised full papers together with the full papers or abstracts of 7 invited talks. All current aspects in theoretical computer science and its mathematical foundations are

addressed, from algorithms and data structures, to complexity, automata, semantics, logic, formal specifications, models of computation, concurrency theory, computational geometry and more.
