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Nota di contenuto	Invited Papers -- Towards Axiomatic Basis of Inductive Inference -- Approximation Algorithms for Fractional Covering and Packing Problems, and Applications -- Challenges of Commutation -- Approximating Bounded Degree Instances of NP-Hard Problems -- Universal Algebra and Computer Science -- Quantum Algorithms -- Regular Papers -- A Discrete Approximation and Communication Complexity Approach to the Superposition Problem -- On Computational Power of Quantum Branching Programs -- Efficient Computation of Singular Moduli with Application in Cryptography -- Ambainis-Freivalds' Algorithm for Measure-Once Automata -- Are There Essentially Incomplete Knowledge Representation Systems? --

Best Increments for the Average Case of Shellsort -- Approximating Minimum Cocolourings -- Curved Edge Routing -- Time/Space Efficient Compressed Pattern Matching -- Modelling Change with the Aid of Knowledge and Time -- If P ? NP then Some Strongly Noninvertible Functions Are Invertible -- Prediction-Preserving Reducibility with Membership Queries on Formal Languages -- Dense Families and Key Functions of Database Relation Instances -- On the Complexity of Decidable Cases of Commutation Problem for Languages -- Cones, Semi-AFPs, and AFPs of Algebraic Power Series -- New Small Universal Circular Post Machines -- Divisibility Monoids: Presentation, Word Problem, and Rational Languages -- Concurrency in Timed Automata -- How Powerful Are Infinite Time Machines? -- Equivalence Problem of Composite Class Diagrams -- Differential Approximation Results for the Traveling Salesman Problem with Distances 1 and 2 -- On the Category of Event Structures with Dense Time -- Closure of Polynomial Time Partial Information Classes under Polynomial Time Reductions -- Monte-Carlo Polynomial versus Linear Time - The Truth-Table Case -- Relating Automata-Theoretic Hierarchies to Complexity-Theoretic Hierarchies -- Polynomial Time Algorithms for Finding Unordered Tree Patterns with Internal Variables -- Piecewise and Local Threshold Testability of DFA -- Compositional Homomorphisms of Relational Structures -- Short Papers -- Representation of Autonomous Automata -- Quantum Reversibility and a New Model of Quantum Automaton -- Space-Efficient 1.5-Way Quantum Turing Machine -- A Combinatorial Aggregation Algorithm for Stationary Distribution of a Large Markov Chain -- A Primitive for Proving the Security of Every Bit and about Universal Hash Functions & Hard Core Bits -- Pythagorean Triples in Unification Theory of Nilpotent Rings -- Two-States Bilinear Intrinsically Universal Cellular Automata -- Linear Time Recognizer for Subsets of ?2 -- Fuzzy Sets and Algorithms of Distributed Task Allocation for Cooperative Agents -- On Recursively Enumerable Subsets of N and Rees Matrix Semigroups over (Z3 ; +) -- Quantum Real - Time Turing Machine -- Mathematical Models and Optimal Algorithms of Dynamic Data Structure Control -- Linear Automata and Recognizable Subsets in Free Semirings -- On Logical Method for Counting Dedekind Numbers -- A General Method for Graph Isomorphism -- WEA Invited Papers -- Designing PTASs for MIN-SUM Scheduling Problems -- On Robust Algorithms for the Maximum Weight Stable Set Problem -- Multicasting in Optical Networks -- WEA Regular Papers -- Structured Randomized Rounding and Coloring -- Optimal Online Flow Time with Resource Augmentation -- New Results for Path Problems in Generalized Stars, Complete Graphs, and Brick Wall Graphs -- On Minimizing Average Weighted Completion Time: A PTAS for Scheduling General Multiprocessor Tasks -- Approximation Algorithms for Time-Dependent Orienteering -- On Complexity of Colouring Mixed Hypertrees -- Combining Arithmetic and Geometric Rounding Techniques for Knapsack Problems -- The Complexity of Maximum Matroid-Greedoid Intersection.