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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Papers -- Non-black-box Techniques in Cryptography -- Complexity of Polynomial Multiplication over Finite Fields -- Synchronous Elastic Circuits -- Theory Track -- SZK Proofs for Black-Box Group Problems -- Canonical Decomposition of a Regular Factorial Language -- Acyclic Bidirected and Skew-Symmetric Graphs: Algorithms and Structure -- Inductive Type Schemas as Functors -- Unfolding Synthesis of Asynchronous Automata -- Conjugacy and Equivalence of Weighted Automata and Functional Transducers -- Applications of the Linear Matroid Parity Algorithm to Approximating Steiner Trees -- Tuples of Disjoint NP-Sets -- Constructive Equivalence Relations on Computable Probability Measures -- Planar Dimer Tilings -- The Complexity of Equality Constraint Languages -- Window Subsequence Problems for Compressed Texts -- Efficient Algorithms in Zero-Characteristic for a New Model of Representation of Algebraic Varieties -- Relativisation Provides Natural Separations for Resolution-Based Proof Systems -- Bounded-Degree Forbidden Patterns Problems Are Constraint Satisfaction Problems -- Isolation and Reducibility

Properties and the Collapse Result -- Incremental Branching Programs -- Logic of Proofs for Bounded Arithmetic -- On a Maximal NFA Without Mergible States -- Expressiveness of Metric Modalities for Continuous Time -- Extending Dijkstra's Algorithm to Maximize the Shortest Path by Node-Wise Limited Arc Interdiction -- Weighted Logics for Traces -- On Nonforgetting Restarting Automata That Are Deterministic and/or Monotone -- Unwinding a Non-effective Cut Elimination Proof -- Enumerate and Expand: Improved Algorithms for Connected Vertex Cover and Tree Cover -- Shannon Entropy vs. Kolmogorov Complexity -- Language Equations with Symmetric Difference -- On Primitive Recursive Realizabilities -- Evidence Reconstruction of Epistemic Modal Logic S5 -- Linear Temporal Logic with Until and Before on Integer Numbers, Deciding Algorithms -- On the Frequency of Letters in Morphic Sequences -- Functional Equations in Shostak Theories -- All Semi-local Longest Common Subsequences in Subquadratic Time -- Non-approximability of the Randomness Deficiency Function -- Multi-agent Explicit Knowledge -- Applications and Technology Track -- Polarized Subtyping for Sized Types -- Neural-Network Based Physical Fields Modeling Techniques -- Approximate Methods for Constrained Total Variation Minimization -- Dynamic Isoline Extraction for Visualization of Streaming Data -- Improved Technique of IP Address Fragmentation Strategies for DoS Attack Traceback -- Performance Comparison Between Backpropagation, Neuro-Fuzzy Network, and SVM -- Evolutionary Multi-objective Optimisation by Diversity Control -- 3D Facial Recognition Using Eigenface and Cascade Fuzzy Neural Networks: Normalized Facial Image Approach -- A New Scaling Kernel-Based Fuzzy System with Low Computational Complexity -- Bulk Synchronous Parallel ML: Semantics and Implementation of the Parallel Juxtaposition -- A Shortest Path Algorithm Based on Limited Search Heuristics -- A New Hybrid Directory Scheme for Shared Memory Multi-processors -- Manipulator Path Planning in 3-Dimensional Space -- Least Likely to Use: A New Page Replacement Strategy for Improving Database Management System Response Time -- Nonlinear Visualization of Incomplete Data Sets -- A Review of Race Detection Mechanisms -- Fuzzy-Q Knowledge Sharing Techniques with Expertness Measures: Comparison and Analysis -- Explaining Symbolic Trajectory Evaluation by Giving It a Faithful Semantics -- Analytic Modeling of Channel Traffic in n-Cubes -- Capturing an Intruder in the Pyramid -- Speech Enhancement in Short-Wave Channel Based on Empirical Mode Decomposition -- Extended Resolution Proofs for Conjoining BDDs -- Optimal Difference Systems of Sets with Multipliers -- Authentication Mechanism Using One-Time Password for 802.11 Wireless LAN -- Optimizing Personalized Retrieval System Based on Web Ranking -- Instruction Selection for ARM/Thumb Processors Based on a Multi-objective Ant Algorithm -- A New Flow Control Algorithm for High Speed Computer Network -- Nonlinear Systems Modeling and Control Using Support Vector Machine Technique -- Fast Motif Search in Protein Sequence Databases.
