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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Plenary Lectures -- On-Line Algorithms, Real Time, the Virtue of Laziness, and the Power of Clairvoyance -- Similarity of Objects and the Meaning of Words -- Totally ? ? Computably Enumerable and m-topped Degrees -- Mitosis in Computational Complexity -- Models of Intuitionistic Set Theories over Partial Combinatory Algebras -- Width Versus Size in Resolution Proofs -- Recent Progress in Quantum Computational Complexity -- Algorithm -- On Several Scheduling Problems with Rejection or Discretely Compressible Processing Times -- LS-SVM Based on Chaotic Particle Swarm Optimization with Simulated Annealing -- A Bounded Item Bin Packing Problem over Discrete Distribution -- Scheduling Jobs on a Flexible Batching Machine: Model, Complexity and Algorithms -- Faster Algorithms for Sorting by Transpositions and Sorting by Block-Interchanges -- An

ACO-Based Approach for Task Assignment and Scheduling of Multiprocessor Control Systems -- Adversary Immune Size Approximation of Single-Hop Radio Networks -- On Load-Balanced Semi-matchings for Weighted Bipartite Graphs -- Analyzing Chain Programs over Difference Constraints -- Linear-Time 2-Approximation Algorithm for the Watchman Route Problem -- Further Properties of Cayley Digraphs and Their Applications to Interconnection Networks -- Real Time Critical Edge of the Shortest Path in Transportation Networks -- Finding Min-Sum Disjoint Shortest Paths from a Single Source to All Pairs of Destinations -- A New Approximation Algorithm for the k-Facility Location Problem -- Computational Complexity -- Alternative Measures of Computational Complexity with Applications to Agnostic Learning -- Disjoint NP-Pairs from Propositional Proof Systems -- Valiant's Holant Theorem and Matchgate Tensors -- Variable Minimal Unsatisfiability -- A New Lower Bound of Critical Function for  $(k,s)$ -SAT -- Cluster Computing and the Power of Edge Recognition -- Quadratic Lower Bounds on Matrix Rigidity -- Non-reducible Descriptions for Conditional Kolmogorov Complexity -- Generalized Counters and Reversal Complexity -- Multisource Algorithmic Information Theory -- Block Sensitivity of Weakly Symmetric Functions -- Optimization Problems in the Polynomial-Time Hierarchy -- #3-Regular Bipartite Planar Vertex Cover is #P-Complete -- Group Theory Based Synthesis of Binary Reversible Circuits -- On Some Complexity Issues of NC Analytic Functions -- Learning Theory -- Learning Juntas in the Presence of Noise -- Grey Reinforcement Learning for Incomplete Information Processing -- On the Foundations of Universal Sequence Prediction -- Some Recent Results in U-Shaped Learning -- Learning Overcomplete Representations with a Generalized Gaussian Prior -- On PAC Learning Algorithms for Rich Boolean Function Classes -- On-Line Regression Competitive with Reproducing Kernel Hilbert Spaces -- Inductive Inference and Language Learning -- Time Series Predictions Using Multi-scale Support Vector Regressions -- Bioinformatics -- Identification and Comparison of Motifs in Brain-Specific and Muscle-Specific Alternative Splicing -- On Probe Permutation Graphs -- Automatic Classification of Protein Structures Based on Convex Hull Representation by Integrated Neural Network -- Protein Structure Comparison Based on a Measure of Information Discrepancy -- Succinct Text Indexes on Large Alphabet -- Security -- Identity-Based Threshold Proxy Signature Scheme with Known Signers -- Secure Computations in a Minimal Model Using Multiple-Valued ESOP Expressions -- Formal Method -- Towards Practical Computable Functions on Context-Free Languages -- The Extended Probabilistic Powerdomain Monad over Stably Compact Spaces -- Analysis of Properties of Petri Synthesis Net -- A Tree Construction of the Preferable Answer Sets for Prioritized Basic Disjunctive Logic Programs -- Object-Oriented Specification Composition and Refinement Via Category Theoretic Computations -- Improved SAT Based Bounded Model Checking -- Models of Computation -- Encodings and Arithmetic Operations in Membrane Computing -- The General Purpose Analog Computer and Computable Analysis are Two Equivalent Paradigms of Analog Computation -- Forecasting Black Holes in Abstract Geometrical Computation is Highly Unpredictable -- The Trade-Off Theorem and Fragments of Gödel's T -- On Non-binary Quantum BCH Codes -- Maximal Models of Assertion Graph in GSTE -- Computability -- Immunity Properties and the  $n$ -C.E. Hierarchy -- On Rogers Semilattices -- Invertible Classes -- Universal Cupping Degrees -- On the Quotient Structure of Computably Enumerable Degrees Modulo the Noncuppable Ideal -- Enumeration Degrees of the Bounded

Total Sets -- A Generic Set That Does Not Bound a Minimal Pair --  
Lowness for Weakly 1-generic and Kurtz-Random -- On Differences  
Among Elementary Theories of Finite Levels of Ershov Hierarchies --  
Computable Mathematics -- On Mass Problems of Presentability --  
Beyond the First Main Theorem -- When Is the Solution of a Linear  
Cauchy Problem Computable?.

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