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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 CriticalFunction 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 CompactSpaces -- 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 -- Computatability -- 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?.

Sommario/riassunto

This book constitutes the refereed proceedings of the Third International Conference on Theory and Applications of Models of Computation, TAMC 2006, held in Beijing, China, in May 2006. The 75 revised full papers presented together with 7 plenary talks were carefully reviewed and selected from 319 submissions. All major areas in computer science, mathematics (especially logic) and the physical sciences particularly with regard to computation and computability theory are addressed.