1. Record Nr.             UNINA9910483557703321

   Titolo                  Computer Science - Theory and Applications : 8th International
                           Computer Science Symposium in Russia, CSR 2013, Ekaterinburg,
                           Russia, June 25-29, 2013, Proceedings / / edited by Andrei A. Bulatov,
                           Arseny M. Shur

   Pubbl/distr/stampa      Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer,
                           , 2013

   ISBN                    3-642-38536-2

   Edizione                [1st ed. 2013.]

   Descrizione fisica      1 online resource (XII, 445 p. 55 illus.) : digital

   Collana                 Theoretical Computer Science and General Issues, , 2512-2029 ; ; 7913

   Disciplina              004.0151

   Soggetti                Algorithms
                           Computer science
                           Computer science—Mathematics
                           Discrete mathematics
                           Machine theory
                           Computer Science Logic and Foundations of Programming
                           Theory of Computation
                           Discrete Mathematics in Computer Science
                           Formal Languages and Automata Theory

   Lingua di pubblicazione Inglese

   Formato                 Materiale a stampa

   Livello bibliografico   Monografia

   Note generali           Bibliographic Level Mode of Issuance: Monograph

   Nota di contenuto       The Lovasz Local Lemma – A Survey -- An Improved Knapsack Solver
                           for Column Generation -- QuickHeapsort: Modifications and Improved
                           Analysis -- Alphabetic Minimax Trees in Linear Time -- Decidability
                           and Enumeration for Automatic Sequences: A Survey -- Walking on
                           Data Words -- Careful Synchronization of Partial Automata with
                           Restricted Alphabets -- Random Generation of Deterministic Acyclic
                           Automata Using the Recursive Method -- Boolean Language Operations
                           on Nondeterministic Automata with a Pushdown of Constant Height --
                           A Short Tutorial on Order-Invariant First-Order Logic -- Exponential
                           Lower Bounds for Refuting Random Formulas Using Ordered Binary
                           Decision Diagrams -- Parameterized Resolution with Bounded
                           Conjunction -- Lower and Upper Bounds for the Length of Joins in the

Lambek Calculus -- Graph Expansion, Tseitin Formulas and Resolution Proofs for CSP -- Towards NEXP versus BPP? -- Information Lower Bounds via Self-reducibility -- On the Encoding Invariance of Polynomial Time Computable Distribution Ensembles -- Improving on Gutfreund, Shaltiel, and Ta-Shma's Paper "If NP Languages Are Hard on the Worst-Case, Then It Is Easy to Find Their Hard Instances" -- Amortized Communication Complexity of an Equality Predicate -- On Coloring of Sparse Graphs -- On Recognizing Words That Are Squares for the Shuffle Product -- Cyclic Shift on Prefix-Free Languages -- Weak Abelian Periodicity of Infinite Words -- Universality of Regular Realizability Problems -- Potential Functions in Strategic Games -- The Probabilistic Min Dominating Set Problem -- Dichotomy of the H-Quasi-Cover Problem -- QCSP on Partially Reflexive Cycles – The Wavy Line of Tractability -- Quantum Alternation -- Real Numbers, Chaos, and the Principle of a Bounded Density of Information -- Random Selection in Few Rounds -- One-Counter Verifiers for Decidable Languages -- More on the Complexity of Quantifier-Free Fixed-Size Bit-Vector Logics with Binary Encoding -- Composition with Algebra at the Background -- Model-Checking Bounded Multi-Pushdown Systems -- Multi-weighted Automata and MSO Logic -- Overlapping Tile Automata.

| | |
|---|---|
| Sommario/riassunto | This book constitutes the proceedings of the 8th International Computer Science Symposium in Russia, CSR 2013, held in Ekaterinburg, Russia, in June 2013. The 29 full papers presented in this volume were carefully reviewed and selected from 52 submissions. In addition the book contains 8 invited lectures. The papers are organized in topical sections on: algorithms; automata; logic and proof complexity; complexity; words and languages; and logic and automata. |