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| 1. Record Nr.           | UNISA996466061103316   |
| Titolo                  | Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques [[electronic resource] ] : 9th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems, APPROX 2006 and 10th International Workshop on Randomization and Computation, RANDOM 2006, Barcelona, Spain, August 28-30, 2006, Proceedings / / edited by Josep Diaz, Klaus Jansen, José D.P. Rolim, Uri Zwick   |
| Pubbl/distr/stampa      | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2006   |
| ISBN                    | 3-540-38045-0  |
| Edizione                | [1st ed. 2006.]  |
| Descrizione fisica      | 1 online resource (XII, 522 p.)  |
| Collana                 | Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4110  |
| Disciplina              | 005.1  |
| Soggetti                | Software engineering<br>Algorithms<br>Computer science—Mathematics<br>Discrete mathematics<br>Numerical analysis<br>Software Engineering<br>Discrete Mathematics in Computer Science<br>Numerical Analysis   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Bibliographic Level Mode of Issuance: Monograph  |
| Nota di bibliografia    | Includes bibliographical references and index.   |
| Nota di contenuto       | Invited Talks -- On Nontrivial Approximation of CSPs -- Analysis of Algorithms on the Cores of Random Graphs -- Contributed Talks of APPROX -- Constant-Factor Approximation for Minimum-Weight (Connected) Dominating Sets in Unit Disk Graphs -- Approximating Precedence-Constrained Single Machine Scheduling by Coloring -- Minimizing Setup and Beam-On Times in Radiation Therapy -- On the Value of Preemption in Scheduling -- An Improved Analysis for a Greedy Remote-Clique Algorithm Using Factor-Revealing LPs -- Tight Results on Minimum Entropy Set Cover -- A Tight Lower Bound for the Steiner Point Removal Problem on Trees -- Single-Source Stochastic |

Routing -- An  $O(\log n)$  Approximation Ratio for the Asymmetric Traveling Salesman Path Problem -- Online Algorithms to Minimize Resource Reallocations and Network Communication -- Weighted Sum Coloring in Batch Scheduling of Conflicting Jobs -- Combinatorial Algorithms for Data Migration to Minimize Average Completion Time -- LP Rounding and an Almost Harmonic Algorithm for Scheduling with Resource Dependent Processing Times -- Approximating Buy-at-Bulk and Shallow-Light  $k$ -Steiner Trees -- Improved Algorithms for Data Migration -- Approximation Algorithms for Graph Homomorphism Problems -- Improved Approximation Algorithm for the One-Warehouse Multi-Retailer Problem -- Hardness of Preemptive Finite Capacity Dial-a-Ride -- Minimum Vehicle Routing with a Common Deadline -- Stochastic Combinatorial Optimization with Controllable Risk Aversion Level -- Approximating Minimum Power Covers of Intersecting Families and Directed Connectivity Problems -- Better Approximations for the Minimum Common Integer Partition Problem -- Contributed Talks of RANDOM -- On Pseudorandom Generators with Linear Stretch in  $NC^0$  -- A Fast Random Sampling Algorithm for Sparsifying Matrices -- The Effect of Boundary Conditions on Mixing Rates of Markov Chains -- Adaptive Sampling and Fast Low-Rank Matrix Approximation -- Robust Local Testability of Tensor Products of LDPC Codes -- Subspace Sampling and Relative-Error Matrix Approximation: Column-Based Methods -- Dobrushin Conditions and Systematic Scan -- Complete Convergence of Message Passing Algorithms for Some Satisfiability Problems -- Robust Mixing -- Approximating Average Parameters of Graphs -- Local Decoding and Testing for Homomorphisms -- Worst-Case Vs. Algorithmic Average-Case Complexity in the Polynomial-Time Hierarchy -- Randomness-Efficient Sampling Within  $NC^1$  -- Monotone Circuits for the Majority Function -- Space Complexity vs. Query Complexity -- Consistency of Local Density Matrices Is QMA-Complete -- On Bounded Distance Decoding for General Lattices -- Threshold Functions for Asymmetric Ramsey Properties Involving Cliques -- Distance Approximation in Bounded-Degree and General Sparse Graphs -- Fractional Matching Via Balls-and-Bins -- A Randomized Solver for Linear Systems with Exponential Convergence -- Maintaining External Memory Efficient Hash Tables.

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