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Nota di contenuto	Contributed Talks of APPROX -- Approximating Optimal Binary Decision Trees -- Santa Claus Meets Hypergraph Matchings -- Ordinal Embedding: Approximation Algorithms and Dimensionality Reduction -- Connected Vertex Covers in Dense Graphs -- Improved Approximation Guarantees through Higher Levels of SDP Hierarchies -- Sweeping Points -- Constraint Satisfaction over a Non-Boolean Domain: Approximation Algorithms and Unique-Games Hardness -- Fully Polynomial Time Approximation Schemes for Time-Cost Tradeoff Problems in Series-Parallel Project Networks -- Efficient Algorithms for Fixed-Precision Instances of Bin Packing and Euclidean TSP --

Approximating Maximum Subgraphs without Short Cycles --
 Deterministic $7/8$ -Approximation for the Metric Maximum TSP --
 Inapproximability of Survivable Networks -- Approximating Single
 Machine Scheduling with Scenarios -- Streaming Algorithms for k -
 Center Clustering with Outliers and with Anonymity -- A General
 Framework for Designing Approximation Schemes for Combinatorial
 Optimization Problems with Many Objectives Combined into One --
 The Directed Minimum Latency Problem -- A Simple LP Relaxation for
 the Asymmetric Traveling Salesman Problem -- Approximating
 Directed Weighted-Degree Constrained Networks -- A Constant Factor
 Approximation for Minimum ℓ_p -Edge-Connected k -Subgraph with
 Metric Costs -- Budgeted Allocations in the Full-Information Setting --
 Contributed Talks of RANDOM -- Optimal Random Matchings on Trees
 and Applications -- Small Sample Spaces Cannot Fool Low Degree
 Polynomials -- Derandomizing the Isolation Lemma and Lower Bounds
 for Circuit Size -- Tensor Products of Weakly Smooth Codes Are Robust
 -- On the Degree Sequences of Random Outerplanar and Series-Parallel
 Graphs -- Improved Bounds for Testing Juntas -- The Complexity of
 Distinguishing Markov Random Fields -- Reconstruction of Markov
 Random Fields from Samples: Some Observations and Algorithms --
 Tight Bounds for Hashing Block Sources -- Improved Separations
 between Nondeterministic and Randomized Multiparty Communication
 -- Quantum and Randomized Lower Bounds for Local Search on
 Vertex-Transitive Graphs -- On the Query Complexity of Testing
 Orientations for Being Eulerian -- Approximately Counting Embeddings
 into Random Graphs -- Increasing the Output Length of Zero-Error
 Dispersers -- Euclidean Sections of with Sublinear Randomness and
 Error-Correction over the Reals -- The Complexity of Local List
 Decoding -- Limitations of Hardness vs. Randomness under Uniform
 Reductions -- Learning Random Monotone DNF -- Breaking the $\Omega(n)$ -
 Soundness Bound of the Linearity Test over $\text{GF}(2)$ -- Dense Fast
 Random Projections and Lean Walsh Transforms -- Near Optimal
 Dimensionality Reductions That Preserve Volumes -- Sampling
 Hypersurfaces through Diffusion -- A 2-Source Almost-Extractor for
 Linear Entropy -- Extractors for Three Uneven-Length Sources -- The
 Power of Choice in a Generalized Pólya Urn Model -- Corruption and
 Recovery-Efficient Locally Decodable Codes -- Quasi-randomness Is
 Determined by the Distribution of Copies of a Fixed Graph in
 Equicardinal Large Sets.

Sommario/riassunto

This book constitutes the joint refereed proceedings of the 11th
 International Workshop on Approximation Algorithms for Combinatorial
 Optimization Problems, APPROX 2008 and the 12th International
 Workshop on Randomization and Computation, RANDOM 2008, held in
 Boston, MA, USA, in August 2008. The 20 revised full papers of the
 APPROX 2008 workshop were carefully reviewed and selected from 42
 submissions and focus on algorithmic and complexity issues
 surrounding the development of efficient approximate solutions to
 computationally difficult problems. RANDOM 2008 is concerned with
 applications of randomness to computational and combinatorial
 problems and accounts for 27 revised full papers, also diligently
 reviewed and selected out of 52 workshop submissions.