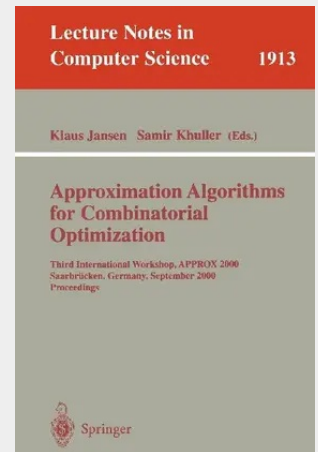


Approximation Algorithms for Combinatorial Optimization

Third International Workshop, APPROX 2000 Saarbrücken, Germany, September 5-8, 2000 Proceedings

The Workshop on Approximation Algorithms for Combinatorial Optimization Problems APPROX 2000 focuses on algorithmic and complexity aspects arising in the development of efficient approximate solutions to computationally difficult problems. It aims, in particular, at fostering cooperation among algorithmic and complexity researchers in the field. The workshop, to be held at the Max-Planck-Institute for Computer Science in Saarbrücken, Germany, co-locates with ESA'2000 and WOE'2000. We would like to thank the local organizers at the Max-Planck-Institute (AG 8, Kurt Mehlhorn), for this opportunity. APPROX is an annual meeting, with previous workshops in Aalborg and Berkeley. Previous proceedings appeared as LNCS 1464 and 1671. Topics of interest for APPROX 2000 are: design and analysis of approximation algorithms, inapproximability results, on-line problems, randomization techniques, average-case analysis, approximation classes, scheduling problems, routing and flow problems, coloring and partitioning, cuts and connectivity, packing and covering, geometric problems, network design, and various applications. The number of submitted papers to APPROX 2000 was 68 from which 23 papers were selected. This volume contains the selected papers plus papers by invited speakers. All papers published in the workshop proceedings were selected by the program committee on the basis of referee reports. Each paper was reviewed by at least three referees who judged the papers for originality, quality, and consistency with the topics of the conference.

Invited Talks.- Approximation Algorithms That Take Advice.- Instant Recognition of Polynomial Time Solvability, Half Integrality, and 2-Approximations.- Scheduling under Uncertainty: Optimizing against a Randomizing Adversary.- Approximation Algorithms for Facility Location Problems.- Contributed Talks.- An Approximation Algorithm for MAX CUT with Given Sizes of Parts.- Maximizing Job Benefits On-Line.- Variable Length Sequencing with Two Lengths.- Randomized Path Coloring on Binary Trees.- Wavelength Rerouting in Optical Networks, or the Venetian Routing Problem.- Greedy Approximation Algorithms for Finding Dense Components in a Graph.- Online Real-Time Preemptive Scheduling of Jobs with Deadlines.- On the Relative Complexity of Approximate Counting Problems.- On the Hardness of Approximating NP Witnesses.- Maximum Dispersion and Geometric Maximum Weight Cliques.- New Results for Online Page Replication.- Inapproximability Results for Set Splitting and Satisfiability Problems with No Mixed Clauses.- Approximation Algorithms for a Capacitated Network Design Problem.- An Approximation Algorithm for the Fault Tolerant Metric Facility Location Problem.- Improved Approximations for Tour and Tree Covers.- Approximating Node Connectivity Problems via Set Covers.- Rectangle Tiling.- Primal-Dual Approaches to the Steiner Problem.- On the Inapproximability of Broadcasting Time.- Polynomial Time Approximation Schemes for Class-Constrained Packing Problems.- Partial Servicing of On-Line Jobs.- Factor 4/3 Approximations for Minimum 2-Connected Subgraphs.



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