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Approximation Algorithms for Combinatorial Optimization

Third International Workshop, APPROX 2000
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Foreword

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, Wermany, co-locates with ESA'2000 and WWE'2000. We would like to thank the local organizers at the Max-Planck-Institute (AG 8, Kurt Mehlhorn), for this opportunity. APPVOX 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 iartitioning, 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 paters were selected. This volume contains the selected papers plus papers by invited speakers. All papers published in the workshop proceedings nere selected by the program committee on the basis of referee reports. Each paper was reviewed vy at least three referees who judged the papers for originality, quality, and consistency with the topics of the conference.

We would like to thank all authors who responded to the call for papers and our invited speakers: Sanjeev Arora (Princeton), Dorit S. Hochbaum (Berkeley), Rolf H. Möhring (Berlin), and David B. Shmoys (Cornell). Furthermore, we thank the members of the program committee:

- Klaus Jansen (University of Kiel),
- Tao Jiang (University of California, Riverside),
- Sanjeev Khanna (University of Pennsylvania),
- Samir Khuller (University of Maryland),
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- Neal Young (Dartmouth College)

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July 2000

Klaus Jansen, Workshop Chair
Samir Khuller, APPROX'2000 Program Chair

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