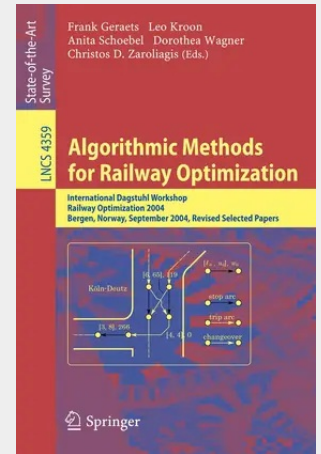


Algorithmic Methods for Railway Optimization

International Dagstuhl Workshop, Railway Optimization 2004, Dagstuhl Castle, Germany, June 20-25, 2004, Bergen, Norway, September 16-17, 2004, Revised Selected Papers

This state-of-the-art survey features papers that were selected after an open call following the International Dagstuhl Seminar on Algorithmic Methods for Railway Optimization. The second part of the volume constitutes the refereed proceedings of the 4th International Workshop on Algorithmic Methods and Models for Optimization of Railways. The 17 full papers presented here were carefully reviewed and selected from numerous submissions.

Algorithmic methods have reached a state of maturity as a consequence of decades of research. Despite its success, the current state of algorithmic research still faces severe difficulties, or cannot cope at all, with highly complex and data intensive real-world applications in large-scale networks. A prominent example is given by railway networks, which are used to model the complex systems of railway transportation. The complexity and size of optimization problems arising in railway transportation still pose challenges for algorithmic research. This volume deals with problems arising in railway optimization, i.e., with planning and scheduling problems over several time horizons. Different challenging problems from the railway world are discussed from the point of view of computer science, algorithms, operations research, and discrete mathematics. The first part of the volume consists of state-of-the-art papers that were selected after an open call that followed a Dagstuhl Seminar on Algorithmic Methods for Railway Optimization in June 2004. We had 12 submissions that underwent the standard peer review process, out of which 8 were selected for publication in this volume. The second part consists of the nine accepted papers in the 4th Workshop on Algorithmic Methods and Models for Optimization of Railways (ATMOS 2004) that took place in Bergen, Norway, September 2004. This series of ATMOS workshops constitute a forum to present and discuss models, algorithms, and results related to railway optimization problems. ATMOS addresses researchers and practitioners working in computer science, discrete optimization, algorithms, operations research. The ATMOS contributions come from all these fields and reflect the interdisciplinary character of railway optimization.



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