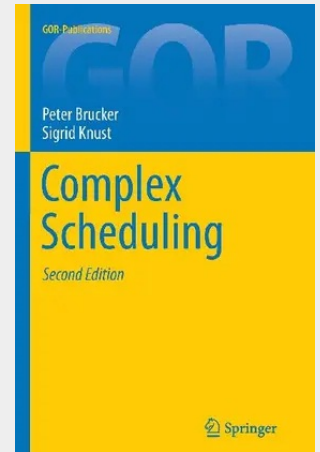


Complex Scheduling

This book presents models and algorithms for complex scheduling problems. Besides resource-constrained project scheduling problems with applications also job-shop problems with flexible machines, transportation or limited buffers are discussed. Discrete optimization methods like linear and integer programming, constraint propagation techniques, shortest path and network flow algorithms, branch-and-bound methods, local search and genetic algorithms, and dynamic programming are presented. They are used in exact or heuristic procedures to solve the introduced complex scheduling problems. Furthermore, methods for calculating lower bounds are described. Most algorithms are formulated in detail and illustrated with examples.

In this second edition some errors were corrected, some parts were explained in more detail, and new material has been added. In particular, further generalizations of the RCPSP, additional practical applications and some more algorithms were integrated.

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106,99 €

99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783642269578

Medium: Buch

ISBN: 978-3-642-26957-8

Verlag: Springer

Erscheinungstermin: 27.11.2013

Sprache(n): Englisch

Auflage: 2. Auflage 2012

Serie: GOR-Publications

Produktform: Kartoniert

Gewicht: 534 g

Seiten: 342

Format (B x H): 155 x 235 mm

