Combinatorial Auctions and Knapsack Problems

By Pfeiffer, Jella

Condition: New. Publisher/Verlag: AV Akademikerverlag | An analysis of optimization methods | Revision with unchanged content. With the rapid diffusion of the internet, different kinds of market designs for e-commerce have emerged. Among these, combinatorial auctions (CAs) have gained increased interest as they permit bidders to express their valuations more easily. For applying a CA in real world scenarios, fast algorithms are needed to compute the optimal allocation of the offered goods. Although much research has dealt with this so-called Winner Determination Problem (WDP), only recently has its equivalence to the well-studied multi-dimensional knapsack problem (MDKP) been noticed. Therefore, there is a lack of research which compares approaches for solving MDKP and WDP problems. With this work, the author, Jella Pfeiffer, provides the missing integrative step, aiming at a more intense understanding and a mutual inspiration of both research areas. She examines structural differences of test instances from both domains, compares the performance of different algorithms, and alludes to a successful search behavior of non-exact but fast algorithms. The book addresses readers interested in electronic market design and algorithms solving complex combinatorial optimization problems. | Format: Paperback | Language/Sprache: english | 128 pp.

READ ONLINE
[7.37 MB]

Reviews

If you need to adding benefit, a must buy book. I could comprehended every thing out of this composed e pdf. I am just very happy to tell you that this is the greatest pdf i have study inside my individual existence and could be he finest publication for at any time.
-- Miss Laurie Waters IV

Most of these publication is the greatest publication offered. It is actually rally intriguing throgh reading period of time. You can expect to like just how the article writer create this publication.
-- Eddie Schuppe

DMCA Notice | Terms