

**Bergman, David; Cire, Andre A.; van Hoeve, Willem-Jan; Hooker, John**

**Decision diagrams for optimization.** (English) [Zbl 06653190](#)

*Artificial Intelligence: Foundations, Theory, and Algorithms*. Cham: Springer (ISBN 978-3-319-42847-5/hbk; 978-3-319-42849-9/ebook). xii, 254 p. (2016).

Preliminary review / Publisher's description: This book introduces a novel approach to discrete optimization, providing both theoretical insights and algorithmic developments that lead to improvements over state-of-the-art technology. The authors present chapters on the use of decision diagrams for combinatorial optimization and constraint programming, with attention to general-purpose solution methods as well as problem-specific techniques.

The book will be useful for researchers and practitioners in discrete optimization and constraint programming.

“Decision Diagrams for Optimization is one of the most exciting developments emerging from constraint programming in recent years. This book is a compelling summary of existing results in this space and a must-read for optimizers around the world.” [Pascal Van Hentenryck]

**MSC:**

**90-02** Research exposition (monographs, survey articles) pertaining to operations research and mathematical programming

**90C10** Integer programming

**90C90** Applications of mathematical programming

**90C31** Sensitivity, stability, parametric optimization

**Full Text:** [DOI](#)