Metaheuristics for Hard Optimization: Methods and Case Studies

By Johann Dréo, Alain Pétrowski, Patrick Siarry, Eric Taillard

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Contains case studies from engineering and operations research

Includes commented literature for each chapter

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- Rank: #13266037 in Books
- Published on: 2010-11-09
- Released on: 2010-02-12
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .87" w x 6.10" l, 1.18 pounds
- Binding: Paperback
- 372 pages

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Editorial Review

From the Back Cover

Metaheuristics for Hard Optimization comprises of three parts. The first part is devoted to the detailed presentation of the four most widely known metaheuristics:

• the simulated annealing method,

• tabu search,

• the evolutionary algorithms,

• ant colony algorithms.

Each one of these metaheuristics is actually a family of methods, of which the essential elements are discussed. In the second part, the book presents some other less widespread metaheuristics, then, extensions of metaheuristics and some ways of research are described . The problem of the choice of a metaheuristic is posed and solution methods are discussed. The last part concentrates on three case studies from telecommunications, air traffic control, and vehicle routing.

Users Review

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