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Then, some multiobjective optimization problems are solved by using methods motivated by the immune system. In this paper, we modify the general-purpose heuristic method called extremal

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optimization. We compare our results with the results of Boettcher and Percus [1]. ...

"Multi-Objective Optimization: Principles and Case Studies," Springer ...

On Metaheuristic Optimization Motivated by the Immune System

Multiobjective Optimization: Principles and Case Studies: Yann Collette, Patrick Siarry: 9783540401827: Books - Amazon.ca

Multiobjective Optimization: Principles and Case Studies ...

Two application case studies reveal the

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importance of multi-objective optimization in practice. A number of research challenges are then highlighted. The chapter concludes by suggesting a few tricks of the trade and mentioning some key resources to the field of multi-objective optimization.

Multi-objective Optimization | SpringerLink
Collette Y., Siarry P. Multiobjective Optimization: Principles and Case Studies. Springer, 2004. - 293 p. "Multiobjective optimization allows a degree of freedom, which is lacking in mono-objective optimization. ... The book is accessible to

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the novice and expert... and can be used by students, engineers and scientists working in aerospace, automotive, and mechanical and civil engineering."

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There is general consensus that multiobjective optimization methods can be broadly decomposed into two categories: Scalarization approaches and Pareto approaches. While different names are used for these categories, the fundamental discriminator is always the same. In the

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First group of methods the multiobjective problem is solved by translating it

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Multi-objective optimization of a bidirectional impulse ...

Multi-objective optimization (also known as multi-objective programming, vector optimization, multicriteria optimization, multiattribute optimization or Pareto

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Multi-objective optimization - Wikipedia
Notice that for each such multi-objective optimization, a solution is declared feasible only if it is feasible under all scenarios. One criticism of this approach is the need for running multi-objective optimization multiple (K) times. There is also an issue with the decision-making procedure associated with the

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Using ...*

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One of the main tools for including decision

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maker (DM) preferences in the multiobjective optimization (MO) literature is the use of reference points and achievement scalarizing functions [A.P. Wierzbicki, The use of reference objectives in multiobjective optimization, in: G. Fandel, T. Gal (Eds.), Multiple-Criteria Decision Making Theory and Application, Springer-Verlag, New York, 1980, pp ...

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