

Discrete Problems in Nature Inspired Algorithms

Nature inspired algorithms are opportunistic algorithms which work on randomization and the theory of chance through the process of combination generation, and later enhancing its quality. This book is especially marked by the introduction of several algorithms which are exclusively for graph based problems, such as combinatorial optimization problems, path formation problems, to name a few. In each chapter, with the introduction of the basic traditional nature inspired algorithm, the modified version for discrete algorithms is discussed, which is the focus of this book. Various combinatorial optimization problems and some specific problems are explored with respect to these algorithms.

Key Features:

- Provides wide-ranging coverage of nature-inspired algorithms for discrete problems in one place
- Includes discrete application descriptions and continuous problems
- Identification of the tuning factors for the algorithms described
- Contains large number of meta-heuristics
- Detailed figures for explanation of concepts and pseudo code of applications along with homework problems, case studies and examples



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