

Studies in Computational Intelligence 242

Carlos Artemio Coello Coello  
Satchidananda Dehuri  
Susmita Ghosh (Eds.)

# Swarm Intelligence for Multi-objective Problems in Data Mining

 Springer

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# Swarm Intelligence For Multi Objective Problems In Data Mining (Studies In Computational Intelligence)

Carlos A. Coello Coello

Multi-objective optimization bargains with the simultaneous optimization of 2 or extra ambitions that are commonly in conflict with each one other. In view of Swarm Intelligence For Multi Objective Problems In Data Mining (Studies In Computational Intelligence) that multi-aim Swarm Intelligence For Multi Objective Problems In Data Mining (Studies In Computational Intelligence) optimization difficulties are quite universal in real-world applications, this sector has developed into a truly well known study subject because the 1970s. However, using bio-inspired metaheuristics for fixing multi-objective optimization difficulties Swarm Intelligence For Multi Objective Problems In Data Mining (Studies In Computational Intelligence) begun within the mid-1980s and have become renowned until eventually the mid-1990s. Nevertheless, the effectiveness of multi-objective evolutionary algorithms has made them very hot in numerous domains. Swarm intelligence refers to definite population-based metaheuristics which are encouraged at the habit of teams of entities (i.e., dwelling beings) interacting locally with each other and with their environment. Such interactions produce an emergent behavior that is modelled in a computer in order to solve problems. The preferred metaheuristics inside swarm intelligence are particle swarm optimization (which simulates a flock of birds looking for food) Swarm Intelligence For Multi Objective Problems In Data Mining (Studies In Computational Intelligence) and ant colony optimization (which simulates the habit of colonies of genuine ants that depart their nest trying to find food). Those metaheuristics have become Swarm Intelligence For Multi Objective Problems In Data Mining (Studies In Computational Intelligence) very popular in the last few years, and have been widely used in a variety of optimization tasks, together with a few concerning information mining and information discovery in databases. However, such paintings have been quite often excited by single-objective optimization models. Using multi-objective extensions of swarm intelligence suggestions in information mining has been fairly scarce, regardless of their nice potential, which constituted the most Swarm Intelligence For Multi Objective Problems In Data Mining (Studies In Computational Intelligence) motivation to provide this book.

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