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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	From the Contents: Selection of Optimized Location for Eco-Parks with the help of Ant Colony Optimization -- Application of Hive Theory for identification of suitable habitats for Porcupines -- Tradeoff Analysis between Rainfall and Load Factor of a Small Scale Hydro Power Plant by Particle Swarm Optimization -- Application of Artificial Neural Network in Short Term Rainfall Forecasting -- Application of Genetic Algorithm for prediction of growth rate of <i>Bufo Melanostictus</i> in an Urban Forest -- Comparison of Nature Based Algorithms in Impact Analysis of Climate Change on Water Resources -- A Neuro-Fuzzy approach for selection of crops in vertical irrigation -- Comparison of Neuro-Fuzzy techniques in estimation of Extreme Events -- Comparison of

Sommario/riassunto

The book describes the utility and efficiency of nature based algorithms in optimization, classification and simulation of natural resource management problems. The book deals with climate change, hydrology, renewable energy and natural ecosystems and tries to find solution to its common uncertainties so that proper mitigation steps can be undertaken to reduce both quantity and probability of such anomalies. The book aims to propose some methodologies which can help related engineers and planners to mitigate the common abnormalities that exist to derail the equilibrium of a natural ecosystem and its biotic as well as abiotic components.