1. Record Nr. UNINA9910437942403321

Titolo	Application of Nature Based Algorithm in Natural Resource Management / / edited by Mrinmoy Majumder, Rabindra Nath Barman
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2013
ISBN	94-007-5152-4
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (347 p.)
Altri autori (Persone)	MajumderMrinmoy BarmanRabindra Nath
Disciplina	333.7
Soggetti	Physical geography Climatology Environmental sciences - Mathematics Renewable energy sources Conservation biology Ecology Earth System Sciences Climate Sciences Mathematical Applications in Environmental Science Renewable Energy Conservation Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
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 Bufo Melanostictus 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

Conceptual and Nature Based Models in prediction of subsurface flow.

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.