1. Record Nr. UNINA9910819756303321

Autore	Zhang Wenjun
Titolo	Computational ecology : artificial neural networks and their applications / / WenJun Zhang
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, 2010
ISBN	1-283-14385-2 9786613143853 981-4282-63-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (312 p.)
Disciplina	577.0285
Soggetti	Ecology - Data processing Ecology - Mathematical models Neural networks (Computer science)
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	pt. 1. Artificial neural networks : principles, theories and algorithms -- pt. 2. Applications of artificial neural networks in ecology.
Sommario/riassunto	Due to the complexity and non-linearity of most ecological problems, artificial neural networks (ANNs) have attracted attention from ecologists and environmental scientists in recent years. As these networks are increasingly being used in ecology for modeling, simulation, function approximation, prediction, classification and data mining, this unique and self-contained book will be the first comprehensive treatment of this subject, by providing readers with overall and in-depth knowledge on algorithms, programs, and applications of ANNs in ecology. Moreover, a new area of ecology, i.e., comput