

1. Record Nr.	UNINA9910299582603321
Autore	Gurumoorthy Sasikumar
Titolo	Cognitive Science and Artificial Intelligence : Advances and Applications // by Sasikumar Gurumoorthy, Bangole Narendra Kumar Rao, Xiao-Zhi Gao
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2018
ISBN	981-10-6698-1
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (VIII, 112 p. 50 illus., 28 illus. in color.)
Collana	SpringerBriefs in Forensic and Medical Bioinformatics, , 2196-8853
Disciplina	006.3
Soggetti	Computational intelligence Medical informatics Bioinformatics Neural networks (Computer science) Biomedical engineering Computational Intelligence Health Informatics Computational and Systems Biology Mathematical Models of Cognitive Processes and Neural Networks Biomedical Engineering and Bioengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1.Construction of Breast Cancer Based Protein Protein Interaction Network Using Multiple Sources of Datasets -- 2.A Novel Evolutionary Automatic Clustering Technique by Unifying Initial Seed Selection Algorithms and K-Means into Teaching-Learning-Based Optimization -- 3.Classification of Abnormal Blood Vessels in Diabetic Retinopathy using Neural Network -- 4.Flue-cured tobacco Leaves classification: A Generalized approach using Deep Convolutional Neural Networks -- 5. The Adaptive Strategies Improving Web Personalization Using the Tree Seed Algorithm (TSA) -- 6.An Experimental Evaluation of Integrated Dematal and Fuzzy Cognitive Maps for Cotton Yield Prediction.
Sommario/riassunto	This book presents interdisciplinary research on cognition, mind and behavior from an information processing perspective. It includes

chapters on Artificial Intelligence, Decision Support Systems, Machine Learning, Data Mining and Support Vector Machines, chiefly with regard to the data obtained and analyzed in Medical Informatics, Bioinformatics and related disciplines. The book reflects the state-of-the-art in Artificial Intelligence and Cognitive Science, and covers theory, algorithms, numerical simulation, error and uncertainty analysis, as well novel applications of new processing techniques in Biomedical Informatics, Computer Science and its applied areas. As such, it offers a valuable resource for students and researchers from the fields of Computer Science and Engineering in Medicine and Biology.
