1. Record Nr. UNISA996466300803316

Titolo	Advanced Data Mining and Applications [[electronic resource]] : 14th International Conference, ADMA 2018, Nanjing, China, November 16–18, 2018, Proceedings / / edited by Guojun Gan, Bohan Li, Xue Li, Shuliang Wang
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-030-05090-4
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XIV, 532 p. 199 illus., 137 illus. in color.)
Collana	Lecture Notes in Artificial Intelligence ; ; 11323
Disciplina	006.312
Soggetti	Artificial intelligence Data mining Database management Information storage and retrieval Computer organization Artificial Intelligence Data Mining and Knowledge Discovery Database Management Information Storage and Retrieval Computer Systems Organization and Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Data Mining Foundations -- Big Data -- Text and Multimedia Mining -- Miscellaneous Topics.
Sommario/riassunto	This book constitutes the refereed proceedings of the 14th International Conference on Advanced Data Mining and Applications, ADMA 2018, held in Nanjing, China in November 2018. The 23 full and 22 short papers presented in this volume were carefully reviewed and selected from 104 submissions. The papers were organized in topical sections named: Data Mining Foundations; Big Data; Text and Multimedia Mining; Miscellaneous Topics.

2. Record Nr. UNINA9910557148403321

Autore	Kavzoglu Taskin
Titolo	Artificial Neural Networks and Evolutionary Computation in Remote Sensing
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (256 p.)
Soggetti	Research and information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

Sommario/riassunto

Artificial neural networks (ANNs) and evolutionary computation methods have been successfully applied in remote sensing applications since they offer unique advantages for the analysis of remotely-sensed images. ANNs are effective in finding underlying relationships and structures within multidimensional datasets. Thanks to new sensors, we have images with more spectral bands at higher spatial resolutions, which clearly recall big data problems. For this purpose, evolutionary algorithms become the best solution for analysis. This book includes eleven high-quality papers, selected after a careful reviewing process, addressing current remote sensing problems. In the chapters of the book, superstructural optimization was suggested for the optimal design of feedforward neural networks, CNN networks were deployed for a nanosatellite payload to select images eligible for transmission to ground, a new weight feature value convolutional neural network (WFCNN) was applied for fine remote sensing image segmentation and extracting improved land-use information, mask regional-convolutional neural networks (Mask R-CNN) was employed for extracting valley fill faces, state-of-the-art convolutional neural network (CNN)-based object detection models were applied to automatically detect airplanes and ships in VHR satellite images, a coarse-to-fine detection strategy was employed to detect ships at different sizes, and a deep quadruplet network (DQN) was proposed for

hyperspectral image classification.