1. Record Nr. UNINA9910465310403321

Autore	McElroy Michael B.
Titolo	Energy and climate : vision for the future / / Michael B. McElroy
Pubbl/distr/stampa	Oxford, [England] ; ; New York, New York : , : Oxford University Press, , 2016 ©2016
ISBN	0-19-755964-6 0-19-049034-9
Descrizione fisica	1 online resource (281 p.)
Collana	Oxford scholarship online
Disciplina	333.790973
Soggetti	Energy development - United States Energy development - China Energy development - Environmental aspects Energy development - Environmental aspects - United States Energy development - Environmental aspects - China Power resources - United States Power resources - China Power resources - Environmental aspects - United States Power resources - Environmental aspects - China Climatic changes Power resources - Environmental aspects Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 2016.
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	In 'Energy and Climate', Harvard atmospheric scientist Michael B. McElroy provides a broad and comprehensive introduction to the issue of energy and climate change intended to be accessible for the general reader.

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.