

1. Record Nr.	UNINA9910350303103321
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Titolo	Satellite Image Analysis: Clustering and Classification // by Surekha Borra, Rohit Thanki, Nilanjan Dey
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-6424-9
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XVI, 97 p. 53 illus., 22 illus. in color.)
Collana	SpringerBriefs in Computational Intelligence, , 2625-3712
Disciplina	621.382
Soggetti	Signal processing Telecommunication Computer vision Signal, Speech and Image Processing Communications Engineering, Networks Computer Vision
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Introduction -- Image Pre-processing Techniques -- Satellite Image Clustering -- Satellite Image Classification -- Applied Examples -- Conclusion.
Sommario/riassunto	Thanks to recent advances in sensors, communication and satellite technology, data storage, processing and networking capabilities, satellite image acquisition and mining are now on the rise. In turn, satellite images play a vital role in providing essential geographical information. Highly accurate automatic classification and decision support systems can facilitate the efforts of data analysts, reduce human error, and allow the rapid and rigorous analysis of land use and land cover information. Integrating Machine Learning (ML) technology with the human visual psychometric can help meet geologists' demands for more efficient and higher-quality classification in real time. This book introduces readers to key concepts, methods and models for satellite image analysis; highlights state-of-the-art classification and clustering techniques; discusses recent developments and remaining challenges; and addresses various applications, making it a valuable asset for engineers, data analysts and researchers in the

fields of geographic information systems and remote sensing
engineering.
