

1. Record Nr.	UNINA9910647493803321
Titolo	Geographic Information Systems and Applications in Coastal Studies // Edited by Yuanzhi Zhang, Qiuming Cheng
Pubbl/distr/stampa	London : , : IntechOpen, , 2022 ©2022
Descrizione fisica	1 online resource (270 pages)
Disciplina	333.917
Soggetti	Coastal zone management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Section 1 Geospatial Technology and Application -- Chapter 1 Open-Source Geospatial Technology for Coastal Asset Mapping and Management by Arati Paul, Dibyendu Dutta and Chandra Shekhar Jha -- Section 2 Shoreline Change Analysis and Assessment -- Chapter 2 Shoreline Change Analysis of Hooghly Estuary Using Multi-Temporal Landsat Data and Digital Shoreline Analysis System by Dibyendu Dutta, Tanumi Kumar, Chiranjivi Jayaram and Wasim Akram -- Chapter 3 Assessment of North Sinai Shoreline Morphodynamics Using Geospatial Tools and DSAS Technique by Ali Masria, Karim Nassar and Mohamed Galal Eltarabily -- Section 3 GIS Contribution to Ancient Cities Development -- Chapter 4 Contribution of Geographic Information Systems to the Development of Ancient Cities by Mustapha Nassir -- Section 4 GIS Applications in Agriculture and Land Suitability Analysis -- Chapter 5 GIS Applications in Agriculture by Parmita Ghosh and Siva P. Kumpatla -- Chapter 6 Multi-Criteria Land Suitability Analysis for Agriculture Using AHP and Remote Sensing Data of Northern Region India by Mujahid Ali Khan, Rizwan Ahmad and Haris Hasan Khan -- Section 5 Solid Waste Management -- Chapter 7 Application of Geographic Information System in Solid Waste Management by Elsay Mati Asefa, Kefelegn Bayu Barasa and Dechasa Adare Mengistu -- Section 6 Impact of COVID-19 Measures on the Air Quality -- Chapter 8 Impact of COVID-19 Measures on the Air Quality Monitored for the State of Himachal Pradesh: A Google Earth Engine Based Study by

Abhinav Galodha, Chander Prakash and Devansh Raniwala -- Section 7
LULC Dynamic Modelling -- Chapter 9 CA-Markov Approach in
Dynamic Modelling of LULCC Using ESA CCI Products over Zambia by
Charles Bwalya Chisanga, Chizumba C. Shepande and Edson Nkonde --
Section 8 Landscape Vulnerability for Planning Hydroelectric Projects --
Chapter 10 Strategically Planning of Hydroelectric Projects for Reduce
the Physical Vulnerability of Landscape in Upper Sutlej Valley, Western
Himalayas, India by Amit Kumar Jamwal and Vikram Sharma -- Section
9 Identification of Groundwater Potential Zones -- Chapter 11
Groundwater Potential Zone Identification Using GIS: Mettur, Salem
District, Tamil Nadu by C. Prakasam and R. Saravanan -- Section 10
Traffic and Transport Management -- Chapter 12 Optimization of the
Road for Effective Management Traffic and Transport with GIS-GPS,
Case Study: Pristina Capital by Arbnor Pajaziti and Orlat Tafilaj.

Sommario/riassunto

In recent years, geographic information systems (GIS) and their coastal applications have drawn increasing awareness globally, regionally, and locally. These systems are used to monitor, model, and predict coastal zone issues. New technologies, including advances in GIS platforms and techniques, are being adopted and innovatively applied to coastal environments and disasters, coastal resources, coastal social systems, and coastal urban environments using new algorithms, big data processing, and deep learning approaches. This book examines a variety of GIS applications, providing a comprehensive overview of techniques, approaches, and experiences in GIS for coastal zones.
