1. Record Nr. UNINA9910734886003321

Autore	Mustak Sk
Titolo	Advanced Remote Sensing for Urban and Landscape Ecology / / edited by Sk. Mustak, Dharmaveer Singh, Prashant Kumar Srivastava
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789819930067 9819930065
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (326 pages)
Collana	Advances in Geographical and Environmental Sciences, , 2198-3550
Altri autori (Persone)	SinghDharmaveer SrivastavaPrashant Kumar
Disciplina	910.285
Soggetti	Geographic information systems Cartography Urban ecology (Biology) Human geography Geographical Information System Urban Ecology Human Geography
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Data And Urban Poverty: Detecting And Characterising Slums And Deprived Urban Areas In Low-And Middle-Income Countries -- Investigation Of Ecological Sustainability Through The Landscape Approach Of Geospatial Technology: Study From New Town Project In Eastern India -- Advanced Remote Sensing For Sustainable Decent Housing For The Economically Challenged Urban Households -- Impact Of Uncontrolled Tourism Development On Landscape Ecology Of Purba Medinipur Coastal Region, West Bengal: A 4-C Framework And Swoc Analysis -- Impact Of Urban Heat Island: A Local-Level Urban Climate Phenomenon On Urban Ecology And Human Health -- Identification Of Environmental Epidemiology Through Advanced Remote Sensing Based On Ndvi -- Assessment Of Land Utilization Pattern And Their Relationship With Surface Temperature And Vegetation In Sikkim, India -- Monitoring Land Use And Land Cover Change Over Bhiwani District Using Google Earth Engine -- Image And Perception Of Royal Heritage

And Eco-Space Of The Medium Towns In India: Reflection From Burdwan Royal Heritage Site -- Governance And Floodplain Extent Changes Of Yamuna River Floodplain In Megacity Delhi -- Assessing Urban Compactness Using Machine Learning And Earth Observation Datasets: A Case Study Of Kolkata City -- Analysis Of Ecological Vulnerability Behind The Land Conversion From Agriculture To Aquaculture Of Purba Medinipur District In West Bengal, India -- Environmental Change Analysis Using Remote Sensing And Gis: A Study Of Upper Baitarani Basin, Odisha -- Mapping Urban Footprint Using Machine Learning And Public Domain Datasets.

Sommario/riassunto

This book introduces the use of various remote sensing data such as microwave, hyperspectral and very high-resolution (VHR) satellite imagery; mapping techniques including pixel and object-based machine learning; and geostatistical modelling techniques including cellular automation, entropy and land fragmentation. Remote sensing plays a vital role in solving urban and environmental challenges at the landscape level. Globally, more than half of the urban population is facing severe environmental and social challenges, especially those relating to climate change, agricultural land encroachment, green infrastructure and environmental degradation, mobility due to rapid rural–urban transformation and anthropogenic interventions. Mapping and quantification of such threats at the landscape level are challenging for experts using traditional techniques; however, remote sensing technology provides diverse spatial data at a varying scale, volume and accessibility for mapping and modelling, and it also analyses challenges at urban and landscape levels. Together, they address challenges at urban and landscape levels to support the Sustainable Development Goals (SDGs).

2. Record Nr. UNINA9910580206503321

Autore	Lourenco Antonio Afonso
Titolo	Foodborne Pathogens and Food Safety
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (254 p.)
Soggetti	Biology, life sciences Microbiology (non-medical) Research & information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Foodborne pathogens represent a major burden on society as they are the cause of high numbers of illnesses, hospitalizations, and deaths each year. In addition to their detrimental impact on human health, these microorganisms, which include pathogenic bacteria, viruses, fungi, and a range of parasites, also represent a significant economic cost to food companies in the implementation and constant oversight of food hygiene and safety programs, product recalls, and potential litigation if outbreaks occur. Advancing our current knowledge of the food processing chain and its vulnerabilities to the many factors related to foodborne pathogens (e.g., their stress response, survival and persistence in processing environments, acquisition of virulence factors and antimicrobial drug resistance) is paramount to the development of effective strategies for early detection and control of pathogens, thereby improving food safety.This Special Issue compiled original research articles contributing to a better understanding of the impact of all aspects of foodborne pathogens on food safety.