Record Nr.	UNINA9910484241203321
Titolo	Spatial modeling in forest resources management : rural livelihood and sustainable development / / Pravat Kumar Shit [and three others]
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-56542-4
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XIX, 675 p. 215 illus., 188 illus. in color.)
Collana	Environmental Science and Engineering, , 1863-5520
Disciplina	333.7509792
Soggetti	Forest management - Statistical methods
	Spatial analysis (Statistics)
	Forest management - Remote sensing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Forest Resources Measurement, Monitoring and Mapping Application of RS-GIS-R for forest resources assessment, monitoring, and modeling Assessment and measurement of forest resources for sustainable land use planning Species diversity mapping and modeling Afforestation Soil-Water-Vegetation Relationship Modeling, Risk Assessment, and Vulnerability Forest biomass and carbon stock modeling Remote sensing based deforestation analysis Forest and habitats suitability analysis Habitats and species modeling Google Earth Engine and its application in forest sciences Rural livelihood and Sustainable Management The role of timber and non- timber forest products in poverty reduction The role of communities in sustainable land and forest management Politics of co-optation: community forest management versus joint forest management Open source satellite data and GIS for forest resources mapping and monitoring Recent trends in forest resources management and land use planning
Sommario/riassunto	This book demonstrates the measurement, monitoring, mapping, and modeling of forest resources. It explores state-of-the-art techniques based on open-source software & R statistical programming and modeling specifically, with a focus on the recent trends in data

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mining/machine learning techniques and robust modeling in forest resources. Discusses major topics such as forest health assessment, estimating forest biomass & carbon stock, land use forest cover (LUFC), dynamic vegetation modeling (DVM) approaches, forest-based rural livelihood, habitat suitability analysis, biodiversity and ecology, and biodiversity, the book presents novel advances and applications of RS-GIS and R in a precise and clear manner. By offering insights into various concepts and their importance for real-world applications, it equips researchers, professionals, and policy-makers with the knowledge and skills to tackle a wide range of issues related to geographic data, including those with scientific, societal, and environmental implications.