Spatial Information Science for Natural Resource Management

Part of the Advances in Environmental Engineering and Green Technologies Book Series

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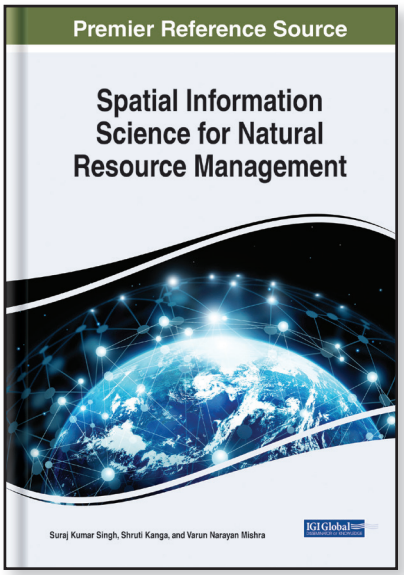

Description:

Stress on natural resources has recently increased due to commercialization and the need to provide livelihoods for locals. Because they are such core parts of everyday life, ensuring sustainability in resource management is of paramount importance. Only by integrating the tools of spatial information science can an effective course for preserving and protecting natural resources be created.

Spatial Information Science for Natural Resource Management is a pivotal reference source that explores coordinated approaches to sustainable development and management of natural resources to keep a balance of the environment, ecology, and human livelihood. Featuring coverage on a wide range of topics including crop yield estimation, ecosystem services, and land information systems, this book covers interdisciplinary techniques in monitoring and managing natural resources. This publication is ideally designed for urban planners, environmentalists, policymakers, ecologists, researchers, academicians, students, and professionals in the fields of remote sensing, civil engineering, social science, computer science, and information technology.

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Topics Covered:

- Crop Monitoring
- Crop Yield Estimation
- Digital Image Processing
- Ecosystem Modelling
- Ecosystem Services
- Environmental Impact
- Forest Resource Mapping
- Geographic Information Systems
- Glacier Monitoring
- Global Positioning System
- Hydrology
- Land Information Systems
- Landscape Dynamics
- Remote Sensing
- Urban Planning

Subject: Environmental, Agricultural, and Physical Sciences

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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