



# Remote Sensing of Land Use and Land Cover: Principles and Applications (Remote Sensing Applications Series)

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## Remote Sensing of Land Use and Land Cover: Principles and Applications (Remote Sensing Applications Series) From CRC Press

Filling the need for a comprehensive book that covers both theory and application, **Remote Sensing of Land Use and Land Cover: Principles and Applications** provides a synopsis of how remote sensing can be used for land-cover characterization, mapping, and monitoring from the local to the global scale. With contributions by leading scientists from around the world, this well-structured volume offers an international perspective on the science, technologies, applications, and future needs of remote sensing of land cover and land use.

After an overview of the key concepts and history of land-use and land-cover mapping, the book discusses the relationship between land cover and land use and addresses the land-cover classification system. It then presents state-of-the-art methods and techniques in data acquisition, preprocessing, image interpretation, and accuracy assessment for land-use and land-cover characterization and mapping.

Case studies from around the world illustrate land-cover applications at global, continental, and national scales. These examples use multiple data sources and provide in-depth understanding of land cover and land-cover dynamics in multiple spatial, thematic, and temporal resolutions. Looking to the future, the book also identifies new frontiers in land-cover mapping and forecasting.

The availability and accessibility of accurate and timely land-cover data sets play an important role in many global change studies, highlighting the need for better land-use and land-cover change information at multiple scales. A synthesis of current knowledge in remote sensing of land-use and land-cover science, this book promotes more effective use of Earth observation data and technology to assess, monitor, and manage land resources.

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### Editorial Review

#### Review

"Dr. Giri carefully selected and examined each contribution and created a well-structured volume in order to address the issues of land cover from the viewpoints of science, technology, practical application and future needs. This comprehensive approach presents the readers with both a systematic view of the field and a detailed knowledge of a particular topic."

?From the Foreword by Qihao Weng, PhD, Hawthorn Woods, Indiana

"... this book certainly met its objectives to present a comprehensive examination of one important and complex topic: land use and land cover. ... valuable because it brings many key aspects of this topic under one cover. It will be a great addition to any personal library and a good choice for reading materials in seminar courses. ... the editor and contributors make this book a success by presenting overviews, principles, applications, and future opportunities."

?Photogrammetric Engineering & Remote Sensing, November 2013

#### About the Author

**Chandra P. Giri**, PhD, is a research physical scientist at the U.S. Geological Survey (USGS)/Earth Resources Observation and Science (EROS) Center, where he leads the International Land Cover and Biodiversity program. He is also a guest/adjunct faculty member at South Dakota State University. Prior to this, Dr. Giri worked for Columbia University in New York, United Nations Environment Programme (UNEP), Asian Institute of Technology, and the Forest Department of Nepal. He has experience working in the private sector, academia, government, and international organizations at national, continental, and global levels in different parts of the world. He also serves as an expert in national and international working groups. Dr. Giri has more than 50 scientific publications to his credit and has received several awards from USGS, NASA, and other organizations.

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