



Hyperspectral Remote Sensing of Tropical and Sub-Tropical Forests

From CRC Press



Hyperspectral Remote Sensing of Tropical and Sub-Tropical Forests From CRC Press

While frequently used in temperate environments, hyperspectral sensors and data are still a novelty in the tropics. Exploring the potential of hyperspectral remote sensing for assessing ecosystem characteristics, **Hyperspectral Remote Sensing of Tropical and Sub-Tropical Forests** focuses on the complex and unique set of challenges involved in using this technology and the data it provides.

Special Features

- A CD-ROM including hyperspectral color images
- Coverage of *in situ* spectroscopy, airborne and satellite-based remote sensing, and fusion with other forms of data such as LiDAR
- Peer-reviewed chapters that highlight the most innovative achievements
- Discussion of the potential of hyperspectral remote sensing to provide tools for assessing ecosystem characteristics at various spatial and temporal scales

Experts from Diverse Backgrounds Share Their Successes

The book explores a range of analysis techniques, including hyperspectral reflectance indices, spectral mixture analysis, pattern classification, band selection, partial least-squares, linear discriminant analysis, and radiative transfer models. The chapter authors present a comprehensive review of the current status and innovative achievements in the field, citing approximately six hundred studies. As illustrated by the diverse backgrounds of the contributors, the most

successful use of hyperspectral data requires a multidisciplinary approach spanning a wide range of fields.

Go Beyond the Basics to Actual Application

Although it begins by touching on the basics, this book is not a tutorial in remote sensing, but a reference that illustrates the potential applications and analysis techniques that can be used when facing the unique challenge of working in the tropics. It presents real-world examples and a suite of analysis techniques for using hyperspectral remote sensing in complex and diverse regions.

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Editorial Review

Review

"...primary strength of this book is the diverse array of contributing authors that represent the state-of-the-art in hyperspectral remote sensing...an excellent job of describing the opportunities and challenges that exist for tropical remote sensing...an enormous contribution to the hyperspectral remote sensing community and fills a knowledge void for ecologists and conservationists...helps consolidate knowledge and will stimulate creative and insightful thinking..."

?Steven R. Schill, Senior Scientist, The Nature Conservancy, San Jose, Costa Rica in *Photogrammetric Engineering & Remote Sensing*, Vol. 75, No. 2, February 2009

Users Review

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As people who live in typically the modest era should be revise about what going on or details even knowledge to make these individuals keep up with the era which is always change and move forward. Some of you maybe can update themselves by reading through books. It is a good choice in your case but the problems coming to anyone is you don't know what type you should start with. This Hyperspectral Remote Sensing of Tropical and Sub-Tropical Forests is our recommendation so you keep up with the world. Why, because book serves what you want and want in this era.

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