



Hyperspectral Remote Sensing of Vegetation

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Hyperspectral narrow-band (or imaging spectroscopy) spectral data are fast emerging as practical solutions in modeling and mapping vegetation. Recent research has demonstrated the advances in and merit of hyperspectral data in a range of applications including quantifying agricultural crops, modeling forest canopy biochemical properties, detecting crop stress and disease, mapping leaf chlorophyll content as it influences crop production, identifying plants affected by contaminants such as arsenic, demonstrating sensitivity to plant nitrogen content, classifying vegetation species and type, characterizing wetlands, and mapping invasive species. The need for significant improvements in quantifying, modeling, and mapping plant chemical, physical, and water properties is more critical than ever before to reduce uncertainties in our understanding of the Earth and to better sustain it. There is also a need for a synthesis of the vast knowledge spread throughout the literature from more than 40 years of research.

Hyperspectral Remote Sensing of Vegetation integrates this knowledge, guiding readers to harness the capabilities of the most recent advances in applying hyperspectral remote sensing technology to the study of terrestrial vegetation. Taking a practical approach to a complex subject, the book demonstrates the experience, utility, methods and models used in studying vegetation using hyperspectral data. Written by leading experts, including pioneers in the field, each chapter presents specific applications, reviews existing state-of-the-art knowledge, highlights the advances made, and provides guidance for the appropriate use of hyperspectral data in the study of vegetation as well as its numerous applications, such as crop yield modeling, crop and vegetation biophysical and biochemical property characterization, and crop moisture assessment.

This comprehensive book brings together the best global expertise on hyperspectral remote sensing of agriculture, crop water use, plant species detection, vegetation classification, biophysical and biochemical modeling, crop productivity and water productivity mapping, and modeling. It provides the pertinent facts, synthesizing findings so that readers can get the correct picture on issues such as the best wavebands for their practical applications, methods of analysis using whole spectra, hyperspectral vegetation indices targeted to study specific biophysical and biochemical quantities, and methods for detecting parameters such as crop moisture variability, chlorophyll content, and stress levels. A collective "knowledge bank," it guides professionals to adopt the best practices for their own work.

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Linda Shell:

A lot of people always spent their free time to vacation or maybe go to the outside with them household or their friend. Were you aware? Many a lot of people spent they will free time just watching TV, as well as playing video games all day long. If you want to try to find a new activity that's look different you can read some sort of book. It is really fun for you. If you enjoy the book which you read you can spent all day every day to reading a guide. The book Hyperspectral Remote Sensing of Vegetation it is quite good to read. There are a lot of folks that recommended this book. These folks were enjoying reading this book. If you did not have enough space to deliver this book you can buy typically the e-book. You can more easily to read this book through your smart phone. The price is not too expensive but this book has high quality.

Becky Pope:

Playing with family in a park, coming to see the coastal world or hanging out with buddies is thing that usually you could have done when you have spare time, after that why you don't try factor that really opposite from that. 1 activity that make you not feeling tired but still relaxing, trilling like on roller coaster you are ride on and with addition details. Even you love Hyperspectral Remote Sensing of Vegetation, you are able to enjoy both. It is good combination right, you still want to miss it? What kind of hangout type is it? Oh come on its mind hangout guys. What? Still don't understand it, oh come on its called reading friends.

Jennifer Garza:

Your reading 6th sense will not betray you actually, why because this Hyperspectral Remote Sensing of Vegetation reserve written by well-known writer who knows well how to make book which might be understand by anyone who else read the book. Written with good manner for you, still dripping wet every ideas and creating skill only for eliminate your current hunger then you still doubt Hyperspectral Remote Sensing of Vegetation as good book not merely by the cover but also with the content. This is one e-book that can break don't determine book by its cover, so do you still needing one more sixth sense to pick this kind of!? Oh come on your examining sixth sense already said so why you have to listening to an additional sixth sense.

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