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Editorial Review

From the Back Cover

A Unique Synthesis of Hyperspectral Imaging with Theory and Applications, Written by Pioneers in the Field

The rapid growth of interest in the use of hyperspectral imaging as a powerful remote sensing technique has been accompanied by hundreds of articles published in journals and conference proceedings. With new findings and applications dispersed across numerous sources, this contributed work provides a much-needed synthesis of what is known, what can be expected from current research and development, and what new research is needed.

The book's twenty-five contributors represent some of the field's most important innovators and pioneers from around the world. It begins with an overview written by the editor that discusses the design theory underlying the development of hyperspectral imaging techniques. This overview also provides a brief introduction to each of the book's thirteen chapters, with an emphasis on the interconnections among them. Chapters are organized into three parts: Tutorials, Theory, and Applications.

Among the spectrum of topics covered are imaging systems, data modeling, data representation, band selection and partition, classification, and data compression.

Readers discover a wide range of current and emerging techniques for surface material identification, evaluation, and analysis of materials. Many of the chapters feature case studies that demonstrate applications in defense and homeland security, intelligence, environmental sciences, geology, and agriculture.

Researchers and practitioners throughout the field of remote sensing will find this volume an exceptionally valuable reference that brings together, analyzes, and synthesizes the many research findings and emerging applications in hyperspectral imaging.

About the Author
Chein-I Chang, PHD, is Professor in the Department of Computer Sciences and Electrical Engineering at the University of Maryland, Baltimore County, where he directs the Remote Sensing Signal and Image Processing Laboratory. Dr. Chang is a Fellow of SPIE, the International Society for Optical Engineering, for his achievements in hyperspectral image processing. He is Associate Editor of the IEEE Transactions on Geoscience and Remote Sensing and the author of Hyperspectral Imaging: Techniques for Spectral Detection and Classification.

Users Review

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author makes some research ahead of write this book. This specific book very easy to read you can get the point easily after looking over this book.

John Solorio:

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