A Matlab Toolbox For Hyperspectral Image Analysis

High Performance Computing in Remote SensingIntelligent Image Analysis for Plant PhenotypingAlgorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral ImageryIntroduction to Subsurface ImagingAlgorithms for Multispectral, Hyperspectral, and Ultraspectral ImageryQuantification of Forest Biomass from Hyperspectral Data Using the Local Regression Basis MethodGeological FieldworkIGARSS 2004Algorithms for Multispectral and Hyperspectral ImageryRaman Microspectroscopy and Hyperspectral Raman Line Imaging of Hydrothermal Aluminosilicate GlassesNASA Tech BriefsRemote Sensing of the Ocean, Sea Ice, and Large Water RegionsMeasurement of the Optical Properties of Horticultural and Food Products by Hyperspectral ImagingDigital Analysis of Remotely Sensed ImageryA Matlab Toolbox for Analysis of Multi/Hyperspectral ImageryProceedings of the … International Conference on Remote Sensing for Marine and Coastal EnvironmentsAstronomical Data Analysis Software and Systems XVIIIOptical Sensors and Sensing Systems for Natural Resources and Food Safety and QualityProceedings of the … International Symposium on Remote Sensing of Environment30th International Symposium on Remote Sensing of Environment Antonio J. Plaza Ashok Samal Bahaa Saleh Sean David Mullen Nancy Lynn Jestel Jianwe Qin Jay Gao Jörgen Ahlberg David A. Bohlender Yud-Ren Chen

High Performance Computing in Remote Sensing Intelligent Image Analysis for Plant Phenotyping Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery Introduction to Subsurface Imaging Algorithms for Multispectral, Hyperspectral, and Ultraspectral Imagery Quantification of Forest Biomass from Hyperspectral Data Using the Local Regression Basis Method Geological Fieldwork IGARSS 2004 Algorithms for Multispectral and Hyperspectral Imagery Raman Microspectroscopy and Hyperspectral Raman Line Imaging of Hydrothermal Aluminosilicate Glasses NASA Tech Briefs Remote Sensing of the Ocean, Sea Ice, and Large Water Regions Measurement of the Optical Properties of Horticultural and Food Products by Hyperspectral Imaging Digital Analysis of Remotely Sensed Imagery A Matlab Toolbox for Analysis of Multi/Hyperspectral Imagery Proceedings of the … International Conference on Remote Sensing for Marine and Coastal Environments Astronomical Data Analysis Software and Systems XVIII Optical Sensors and Sensing Systems for Natural Resources and Food Safety and Quality Proceedings of the … International Symposium on Remote Sensing of Environment 30th International Symposium on Remote Sensing of Environment *Antonio J. Plaza Ashok Samal Bahaa Saleh Sean David Mullen Nancy Lynn Jestel*

Jianwe Qin Jay Gao Jörgen Ahlberg David A. Bohlender Yud-Ren Chen

solutions for time critical remote sensing applications the recent use of latest generation sensors in airborne and satellite platforms is producing a nearly continual stream of high dimensional data which in turn is creating new processing challenges to address the computational requirements of time critical applications researchers

domesticated crops are the result of artificial selection for particular phenotypes or in some cases natural selection for an adaptive trait plant traits can be identified through image based plant phenotyping a process that was until recently strenous and time consuming intelligent image analysis for plant phenotyping reviews information on time saving techniques using computer vision and imaging technologies these methodologies provide an automated non invasive and scalable mechanism by which to define and collect plant phenotypes beautifully illustrated with numerous color images the book focuses on phenotypes measured from individual plants under controlled experimental conditions which are widely available in high throughput systems features presents methodologies for image processing including data driven and machine learning techniques for plant phenotyping features information on advanced techniques for extracting phenotypes through images and image sequences captured in a variety of modalities includes real world scientific problems including predicting yield by modeling interactions between plant data and environmental information discusses the challenge of translating images into biologically informative quantitative phenotypes a practical resource for students researchers and practitioners this book is invaluable for those working in the emerging fields at the intersection of computer vision and plant sciences

describing and evaluating the basic principles and methods of subsurface sensing and imaging introduction to subsurface imaging is a clear and comprehensive treatment that links theory to a wide range of real world applications in medicine biology security and geophysical environmental exploration it integrates the different sensing techniques acoustic electric electromagnetic optical x ray or particle beams by unifying the underlying physical and mathematical similarities and computational and algorithmic methods time domain spectral and multisensor methods are also covered whilst all the necessary mathematical statistical and linear systems tools are given in useful appendices to make the book self contained featuring a logical blend of theory and applications a wealth of color illustrations homework problems and numerous case studies this is suitable for use as both a course text and as a professional reference

an important text that identifies and introduces new trends in image analysis digital analysis

of remotely sensed imagery provides thorough coverage of the entire process of analyzing remotely sensed data for the purpose of producing accurate representations in thematic map format written in easy to follow language with minimal technical jargon the book explores cutting edge techniques and trends in image analysis as well as the relationship between image processing and other recently emerged special technologies

proceedings of spie present the original research papers presented at spie conferences and other high quality conferences in the broad ranging fields of optics and photonics these books provide prompt access to the latest innovations in research and technology in their respective fields proceedings of spie are among the most cited references in patent literature

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