



IEEE TRANSACTIONS ON

GEOSCIENCE AND REMOTE SENSING

A PUBLICATION OF THE IEEE GEOSCIENCE AND REMOTE SENSING SOCIETY

SEPTEMBER 1998

VOLUME 36

NUMBER 5

IGRSD2

(ISSN 0196-2892)

PART I OF TWO PARTS

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Remote Sensing of Aquatic Coastal Ecosystem Processes Laurie L. Richardson, Ellsworth F. LeDrew, 2006-02-02 The aquatic coastal zone is one of the most challenging targets for environmental remote sensing. Properties such as bottom reflectance, spectrally diverse suspended sediments and phytoplankton communities, diverse benthic communities and transient events that affect surface reflectance, coastal blooms, runoff etc. all combine to produce an optical complexity not seen in terrestrial or open ocean systems. Despite this complexity, remote sensing is proving to be an invaluable tool for Case 2 waters. This book presents recent advances in coastal remote sensing with an emphasis on applied science and management. Case studies of the operational use of remote sensing in ecosystem studies, monitoring and interfacing remote sensing science management are presented. Spectral signatures of phytoplankton and suspended sediments are discussed in detail with accompanying discussion of why blue water Case 1 algorithms cannot be applied to Case 2 waters. Audience: This book is targeted for scientists and managers interested in using remote sensing in the study or management of aquatic coastal environments. With only limited discussion of optics and theory presented in the book, such researchers might benefit from the detailed presentations of aquatic spectral signatures and to operational management issues. While not specifically written for remote sensing scientists, it will prove to be a useful reference for this community for the current status of aquatic coastal remote sensing. Real-Time Recursive Hyperspectral Sample and Band Processing Chein-I Chang, 2017-04-23 This book explores recursive architectures in designing progressive hyperspectral imaging algorithms. In particular, it makes progressive imaging algorithms recursive by introducing the concept of Kalman filtering in algorithm design so that hyperspectral imagery can be processed not only progressively sample by sample or band by band but also recursively via recursive equations. This book can be considered a companion book of author's books *Real Time Progressive Hyperspectral Image Processing* published by Springer in 2016. **Real-Time Progressive Hyperspectral Image Processing** Chein-I Chang, 2016-03-22 The book covers the most crucial parts of real time hyperspectral image processing: causality and real time capability. Recently, two new concepts of real time hyperspectral image processing: Progressive HyperSpectral Imaging (PHSI) and Recursive HyperSpectral Imaging (RHSI). Both of these can be used to design algorithms and also form an integral part of real time hyperspectral image processing. This book focuses on progressive nature in algorithms on their real time and causal processing implementation in two major applications: endmember finding and anomaly detection, both of which are fundamental tasks in hyperspectral imaging but generally not encountered in multispectral imaging. This book is written to particularly address PHSI in real time processing while a book *Recursive Hyperspectral Sample and Band Processing: Algorithm Architecture and Implementation* Springer 2016 can be considered as its companion book. **Electrical & Electronics Abstracts** ,1997 **FUSION ...** ,2002 **IGARSS 2004** ,2004 Manual of Remote Sensing, Remote

Sensing for the Earth Sciences Andrew N. Rencz, Robert A. Ryerson, 1999-03-08 An outstanding new reference work REMOTE SENSING for the Earth Sciences Remote Sensing for the Earth Sciences is a comprehensive up to date resource for geologists geophysicists and all earth scientists Produced in cooperation with the American Society for Photogrammetry and Remote Sensing it is the third volume of the Manual of Remote Sensing Third Edition the widely accepted basic reference work in the field It brings together contributions from an international team of scientists active in remote sensing and earth sciences research The book is organized for quick access to topics of particular interest beginning with coverage of spectral characteristics that focuses on the theory of rock mineral soil and vegetation spectra as well as planetary geology The second section on data analysis is devoted to procedures used in information extraction and techniques used in the visual display of data particularly in the integration of various geospatial data The third section addresses applications of remote sensing in areas such as mineral and hydrocarbon exploration stratigraphic mapping engineering geology and environmental studies The final chapters offer a discussion of sensors relevant to the earth sciences including radar visible infrared and geophysical sensors along with case study examples Complete with color figures helpful illustrations and thorough references including Internet sources this volume is a major resource for researchers and practitioners working in the earth and environmental sciences

Neural Networks and Micromechanics Ernst Kussul, Tatiana Baidyk, Donald C. Wunsch, 2009-12-01 Micromechanical manufacturing based on microequipment creates new possibilities in goods production If microequipment sizes are comparable to the sizes of the microdevices to be produced it is possible to decrease the cost of production drastically The main components of the production cost material energy space consumption equipment and maintenance decrease with the scaling down of equipment sizes To obtain really inexpensive production labor costs must be reduced to almost zero For this purpose fully automated microfactories will be developed To create fully automated microfactories we propose using artificial neural networks having different structures The simplest perceptron like neural network can be used at the lowest levels of microfactory control systems Adaptive Critic Design based on neural network models of the microfactory objects can be used for manufacturing process optimization while associative projective neural networks and networks like ART could be used for the highest levels of control systems We have examined the performance of different neural networks in traditional image recognition tasks and in problems that appear in micromechanical manufacturing We and our colleagues also have developed an approach to microequipment creation in the form of sequential generations Each subsequent generation must be of a smaller size than the previous ones and must be made by previous generations Prototypes of first generation microequipment have been developed and assessed

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Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery, 2004

Optical Radiometry and Satellite Validation Agnieszka

Bialek, David Doxaran, Vittorio Ernesto Brando, Clemence Goyens, Kevin Ruddick, Ana Ines Dogliotti, 2025-08-26 Strict quality

control is essential to ensure that the satellite data products routinely used for environmental monitoring of water and land surfaces are fit for purpose A crucial step in this process is the validation of the water and land surface reflectances from which the final end user products are derived The topic of radiometric validation is growing rapidly in importance both because of the advent of operational satellite missions for routine environmental monitoring and because of the rapid expansion in the number of satellite missions including CubeSat constellations with limited cal val resources This enhanced need for radiometric validation data covering a wide VIS NIR SWIR range e g 380 2400nm preferably with a hyperspectral resolution must be met by new techniques and hardware particularly ground based automated radiometry *Manual of Remote Sensing: Remote sensing for the earth sciences* Robert A. Ryerson, Floyd M. Henderson, Anthony J. Lewis, 1999

Hyperspectral Remote Sensing Ruiliang Pu, 2017-08-16 Advanced imaging spectral technology and hyperspectral analysis techniques for multiple applications are the key features of the book This book will present in one volume complete solutions from concepts fundamentals and methods of acquisition of hyperspectral data to analyses and applications of the data in a very coherent manner It will help readers to fully understand basic theories of HRS how to utilize various field spectrometers and bioinstruments the importance of radiometric correction and atmospheric correction the use of analysis tools and software and determine what to do with HRS technology and data *Multispectral and Hyperspectral Remote Sensing Instruments and Applications II* Allen M. Larar, Makoto Suzuki, Qingxi Tong, 2005 Proceedings of SPIE offer access to the latest innovations in research and technology and are among the most cited references in patent literature 日本国立研究所 (Japan), 1972 *Bispectral Methods of Signal Processing* Alexander V. Totsky, Alexander A. Zelensky, Victor F. Kravchenko, 2014-12-11 By studying applications in radar telecommunications and digital image restoration this monograph discusses signal processing techniques based on bispectral methods Improved robustness against different forms of noise as well as preservation of phase information render this method a valuable alternative to common power spectrum analysis used in radar object recognition digital wireless communications and jitter removal in images *Subject Guide to Books in Print*, 1991

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