Sensors, Systems, and Next-Generation Satellites XXV

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Sensors Systems And Next Generation Satellites V

Prasad S. Thenkabail

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   Remote Sensing Handbook, Volume I Prasad S. Thenkabail,2024-11-29 Volume I of the Six Volume Remote Sensing Handbook Second Edition is focused on satellites and sensors including radar light detection and ranging LiDAR microwave hyperspectral unmanned aerial vehicles UAVs and their applications It discusses data normalization and harmonization accuracies and uncertainties of remote sensing products global navigation satellite system GNSS theory and practice crowdsourcing cloud computing environments Google Earth Engine and remote sensing and space law This thoroughly revised and updated volume draws on the expertise of a diverse array of leading international authorities in remote sensing and provides an essential resource for researchers at all levels interested in using remote sensing It integrates discussions of remote sensing principles data methods development applications and scientific and social context FEATURES Provides the most up to date comprehensive coverage of remote sensing science Discusses and analyzes data from old and new generations of satellites and sensors Provides comprehensive methods and approaches for remote sensing data normalization standardization and harmonization Includes numerous case studies on advances and applications at local regional and global scales Introduces advanced methods in remote sensing such as machine learning cloud computing and AI Highlights scientific achievements over the last decade and provides guidance for future developments This volume is an excellent resource for the entire remote sensing and GIS community Academics researchers undergraduate and graduate students as well as practitioners decision makers and policymakers will benefit from the expertise of the professionals featured in this book and their extensive knowledge of new and emerging trends   **Land Remote Sensing and Global Environmental Change** Bhaskar Ramachandran,Christopher O. Justice,Michael J. Abrams,2010-12-14 Land Remote Sensing and Global Environmental Change The Science of ASTER and MODIS is an edited compendium of contributions dealing with ASTER and MODIS satellite sensors aboard NASA s Terra and Aqua platforms launched as part of the Earth Observing System fleet in 1999 and 2002 respectively This volume is divided into six sections The first three sections provide insights into the history philosophy and evolution of the EOS ASTER and MODIS instrument designs and calibration mechanisms and the data systems components used to manage and provide the science data and derived products The latter three sections exclusively deal with ASTER and MODIS data products and their applications and the future of these two classes of remotely sensed observations   **Remotely Sensed Data Characterization, Classification, and Accuracies** Ph.D., Prasad S.

Thenkabail,2015-10-02 A volume in the Remote Sensing Handbook series Remotely Sensed Data Characterization Classification and Accuracies documents the scientific and methodological advances that have taken place during the last 50 years The other two volumes in the series are Land Resources Monitoring Modeling and Mapping with Remote Sensing and Remote Sensing of Water Resources Disasters and Urban Studies This volume demonstrates the experience utility methods and models used in studying a wide array of remotely sensed data characterization classification and accuracies for terrestrial applications Leading experts on global geographic coverage study areas and array of satellite and sensors contribute to this unique handbook This theoretical as well as highly practical book represents a thorough history of advancement in the field over last 50 years bringing us to where we are now and highlighting future possibilities Highlights include Fundamental and advanced topics in remote sensing satellites and sensors Remote sensing data calibration normalization harmonization and synthesis Optical Radar LiDAR thermal hyperspectral and other satellite sensors normalization of remotely sensed data and data degradations Digital image processing urban image classification and image classification methods in land use land cover cropland change detection studies Enhanced vegetation indices and standardization of vegetation indices Object based image analysis OBIA and geospatial data integration LiDAR data processing and applications Geoprocessing GIS and GIScience GNSS applications Crowdsourcing and cloud computing Google Earth for Earth Sciences Map accuracies Remote sensing law or space law and a host of other topics *Earth Science Satellite Remote Sensing* John J. Qu,Wei Gao,Menas Kafatos,Robert E. Murphy,Vincent V. Salomonson,2007-04-29 This book provides information on the Earth science remote sensing data information and data format such as HDF EOS It evaluates the current data processing approaches and introduces data searching and ordering from different public domains It further explores the remote sensing and GIS migration products and WebGIS applications Both volumes are designed to give an introduction to current and future NASA NOAA and other Earth science remote sensing *SeaWiFS Postlaunch Technical Report Series* Elaine R. Firestone,2004 **SeaWiFS Postlaunch Technical Report Series** ,2000

Cooperative Systems Don Grundel,Robert Murphey,Panos Pardalos,Oleg Prokopyev,2007-03-21 Because of the clearly important role cooperative systems play in areas such as military sciences biology communications robotics and economics just to name a few the study of cooperative systems has intensified This book provides an insight in the basic understanding of cooperative systems as well as in theory modeling and applications of cooperative control optimization and related problems **On-Board Processing for Satellite Remote Sensing Images** Guoqing Zhou,2023-05-12 On board image processing systems are used to maximize image data transmission efficiency for large volumes of data gathered by Earth observation satellites This book explains the methods mathematical models and key technologies used for these systems It introduces the background basic concepts and the architecture of on board image processing along with on board detection of the image feature and matching ground control point identification on board geometric correction calibration geographic

registration etc Describes algorithms and methodologies for on board image processing with FPGA chips Migrates the traditional on ground computing to on board operation and the image processing is implemented on board not on ground Introduces for the first time many key technologies and methods for on board image processing Emphasizes the recent progress in image processing by using on board FPGA chips Includes case studies from the author s extensive research and experience on the topic This book gives insights into emerging technologies for on board processing and will benefit senior undergraduate and graduate students of remote sensing information technology computer science and engineering electronic engineering and geography as well as researchers and professionals interested in satellite remote sensing image processing in academia and governmental and commercial sectors   Advanced Concepts for Intelligent Vision Systems Wilfried Philips,Dan Popescu,Paul Scheunders,2009-09-30 This book constitutes the refereed proceedings of the 11th International Conference on Advanced Concepts for Intelligent Vision Systems ACIVS 2009 held in Bordeaux France in September October 2009 The 43 revised full papers and 25 posters presented were carefully reviewed and selected from 115 submissions The papers are organized in topical sections on technovision fundamental mathematical techniques image processing coding and filtering image and video analysis computer vision tracking color multispectral and special purpose imaging medical imaging and biometrics   **Comprehensive Remote Sensing** Shunlin Liang,2017-11-08 Comprehensive Remote Sensing Nine Volume Set covers all aspects of the topic with each volume edited by well known scientists and contributed to by frontier researchers It is a comprehensive resource that will benefit both students and researchers who want to further their understanding in this discipline The field of remote sensing has quadrupled in size in the past two decades and increasingly draws in individuals working in a diverse set of disciplines ranging from geographers oceanographers and meteorologists to physicists and computer scientists Researchers from a variety of backgrounds are now accessing remote sensing data creating an urgent need for a one stop reference work that can comprehensively document the development of remote sensing from the basic principles modeling and practical algorithms to various applications Fully comprehensive coverage of this rapidly growing discipline giving readers a detailed overview of all aspects of Remote Sensing principles and applications Contains Layered content with each article beginning with the basics and then moving on to more complex concepts Ideal for advanced undergraduates and academic researchers Includes case studies that illustrate the practical application of remote sensing principles further enhancing understanding   **Contemporary Planetary Robotics** Yang Gao,2016-06-03 For readers from both academia and industry wishing to pursue their studies and or careers in planetary robotics this book represents a one stop tour of the history evolution key systems and technologies of this emerging field The book provides a comprehensive introduction to the key techniques and technologies that help to achieve autonomous space systems for cost effective high performing planetary robotic missions Main topics covered include robotic vision surface navigation manipulation mission operations and autonomy being explained in both theoretical principles and

practical use cases The book recognizes the importance of system design hence discusses practices and tools that help take mission concepts to baseline design solutions making it a practical piece of scientific reference suited to a variety of practitioners in planetary robotics   Adaptive Audio and Video Processing for Electronic Chalkboard Lectures Gerald Friedland,2006 This doctoral dissertation in computer science describes how traditional chalk and talk lectures can be transmitted over the web while maximizing the quality and minimizing the amount of extra effort The book presents a comprehensive discussion on many technological and humand centered issues using the example of the software system E Chalk that was co developed by the author As a by product the work includes a detailed description of the so called Simple Interactive Object Extration SIOX algorithm that has recently been integrated in several open source image manipulation programs such as GIMP Inkscape and Blender   Signal Processing and Performance Analysis for Imaging Systems S. Susan Young,Ronald G. Driggers,Eddie Lynn Jacobs,2008 This book presents today s most powerful signal processing techniques together with methods for assessing imaging system performance when each of these techniques is applied This multi use book helps you make the most of sensor hardware through software enhancement and evaluate system and algorithm performance You also learn how to make the best hardware software decisions in developing the next generation of image acquisition and analysis systems   **Computational Science and Its Applications -- ICCSA 2013** Beniamino Murgante,Sanjay Misra,Maurizio Carlini,Carmelo Maria Torre,Hong-Quang Nguyen,David Taniar,Bernady O. Apduhan,Osvaldo Gervasi,2013-06-22 The five volume set LNCS 7971 7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications ICCSA 2013 held in Ho Chi Minh City Vietnam in June 2013 The 248 revised papers presented in five tracks and 33 special sessions and workshops were carefully reviewed and selected The 46 papers included in the five general tracks are organized in the following topical sections computational methods algorithms and scientific applications high performance computing and networks geometric modeling graphics and visualization advanced and emerging applications and information systems and technologies The 202 papers presented in special sessions and workshops cover a wide range of topics in computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality   International Journal of Advanced Remote Sensing and GIS Cloud Publications,2012-01-01 International Journal of Advanced Remote Sensing and GIS IJARSG ISSN 2320 0243 is an open access peer reviewed scholarly journal publishes original research papers reviews case study case reports and methodology articles in all aspects of Remote Sensing and GIS including associated fields This Journal commits to working for quality and transparency in its publishing by following standard Publication Ethics and Policies   **Satellite Precipitation Measurement** Vincenzo Levizzani,Christopher Kidd,Dalia B. Kirschbaum,Christian D. Kummerow,Kenji Nakamura,F. Joseph Turk,2020-04-10 This book offers a complete overview of the measurement of precipitation from space which has made considerable advancements during the last two decades This is

mainly due to the Tropical Rainfall Measuring Mission TRMM the Global Precipitation Measurement GPM mission CloudSat and a carefully maintained constellation of satellites hosting passive microwave sensors The book revisits a previous book Measuring Precipitation from Space edited by V Levizzani P Bauer and F J Turk published with Springer in 2007 The current content has been completely renewed to incorporate the advancements of science and technology in the field since then This book provides unique contributions from field experts and from the International Precipitation Working Group IPWG The book will be of interest to meteorologists hydrologists climatologists water management authorities students at various levels and many other parties interested in making use of satellite precipitation data sets Chapter TAMSAT is available open access under a Creative Commons Attribution 4 0 International License via link springer com __Satellite-based Applications on Climate Change__ John Qu,Alfred Powell,M.V.K. Sivakumar,2013-03-19 Climate and other environmental changes are drawing unprecedented concern and attention from national governments international organizations and local communities Global warming has left noticeable impacts on the environment and the ecosystems it supports including humans and has important implications for sustainable economic and social development in the future Satellite observations of climate and environmental change have become an increasingly important tool in recent years in helping to shape the response of international communities to this critical global challenge The book presents the latest advances in satellite based remote sensing of the Earth s environment ranging from applications in climate and atmospheric science to hydrology oceanography hydrology geomorphology ecology and fire studies Introductory chapters also cover key technical aspects such as instrumentation calibration data analysis and GIS tools for decision making

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