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Remote Sensed Data and Processing Methodologies for 3D Virtual Reconstruction and Visualization of Complex Architectures *Water Optics and Water Colour Remote Sensing* Urban High-Resolution Remote Sensing *Web and Wireless Geographical Information Systems* **Remote Sensing Based Building Extraction Spatial Data Handling in Big Data Era** *Applications of Remote Sensing Data in Mapping of Forest Growing Stock and Biomass Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2011 Edition* Analysis of Urban Growth and Sprawl from Remote Sensing Data **Computational Science and Its Applications - ICCSA 2010 Advances in SAR: Sensors, Methodologies, and Applications Proceedings, 31st International Symposium on Remote Sensing of Environment Annual Report on China's Response to Climate Change (2017) Remote Sensing of Atmospheric Pollution Proceedings of the ... International Symposium on Remote Sensing of Environment Mobile Ad-hoc and Sensor Networks** *Spatial Data Mining* **Learning to Understand Remote Sensing Images MIPPR 2005** Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2013 Edition **Environmental Degradation in Asia** Optical Fibre Sensors **Human-Centered Urban Planning and Design in China: Volume I** Recent Advances and Applications in Remote Sensing Mobile Ad-hoc and Sensor Networks Intelligent Computing Methodologies **Sensors and Actuators in Smart Cities Dependability in Sensor, Cloud, and Big Data Systems and Applications Information Security Practice and Experience Geospatial Data Analytics and Urban Applications Advances in Information Technology Research and Application: 2011 Edition Handbook of Research on Fuzzy and Rough Set Theory in Organizational Decision Making Issues in Networks Research and Application: 2011 Edition** Web Technologies and Applications *Applications of Artificial Neural Networks for Nonlinear Data* **Advances in Photogrammetry, Remote Sensing and Spatial Information Sciences: 2008 ISPRS Congress Book Big Data Support of Urban Planning and Management** Advances in Artificial Systems for Logistics Engineering **Image and Graphics Advances in Quantitative Remote Sensing in China – In Memory of Prof. Xiaowen Li**

Analysis of Urban Growth and Sprawl from Remote Sensing Data Feb 21 2022 This book provides a comprehensive discussion on urban growth and sprawl, and how they can be analyzed using remote sensing imageries. It compiles views of numerous researchers that help in understanding the urban growth and sprawl; their patterns, process, causes, consequences, and countermeasures; how remote sensing data and geographic information system techniques can be used in mapping, monitoring, measuring, analyzing, and simulating the urban growth and sprawl and what are the merits and demerits of available methods and models. This book will be of value for the scientists and researchers engaged in urban geographic research, especially using remote sensing imageries. This book will serve as a rigours literature review for them. Post graduate students of urban geography or urban/regional planning may refer this book as additional studies. This book may help the academicians for preparing lecture notes and delivering

lectures. Industry professionals may also be benefited from the discussed methods and models along with numerous citations.

Advances in Photogrammetry, Remote Sensing and Spatial Information Sciences: 2008 ISPRS Congress Book Oct 27 2019 Published on the occasion of the XXIst Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS) in Beiijng, China in 2008, Advances in Photogrammetry, Remote Sensing and Spatial Information Sciences: 2008 ISPRS Congress Book is a compilation of 34 contributions from 62 researchers active within the ISPRS. The book covers

Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2013 Edition Mar 13 2021 Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Analysis and Measurement. The editors have built Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Analysis and Measurement in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Intelligent Computing Methodologies Sep 06 2020 This book – in conjunction with the volumes LNCS 8588 and LNBI 8590 – constitutes the refereed proceedings of the 10th International Conference on Intelligent Computing, ICIC 2014, held in Taiyuan, China, in August 2014. The 85 papers of this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections such as soft computing; artificial bee colony algorithms; unsupervised learning; kernel methods and supporting vector machines; machine learning; fuzzy theory and algorithms; image processing; intelligent computing in computer vision; intelligent computing in communication networks; intelligent image/document retrievals; intelligent data analysis and prediction; intelligent agent and Web applications; intelligent fault diagnosis; knowledge representation/reasoning; knowledge discovery and data mining; natural language processing and computational linguistics; next gen sequencing and metagenomics; intelligent computing in scheduling and engineering optimization; advanced modeling, control and optimization techniques for complex engineering systems; complex networks and their applications; time series forecasting and analysis using artificial neural networks; computer human interaction using multiple visual cues and intelligent computing; biometric system and security for intelligent computing.

Web Technologies and Applications Dec 30 2019 This book constitutes the refereed proceedings of the 16th Asia-Pacific Conference APWeb 2014 held in Changsha, China, in September 2014. The 34 full papers and 23 short papers presented were carefully reviewed and selected from 134 submissions. The papers address research, development and advanced applications of large-scale data management, web and search technologies, and information processing.

Information Security Practice and Experience Jun 03 2020 This book constitutes the refereed proceedings of the 14th International Conference on Information Security Practice and Experience, ISPEC 2018, held in Tokyo, Japan, in September 2018. The 39 papers presented in this volume were carefully reviewed and selected from 73 submissions. They were organized in topical sections named: system security; public key cryptography; searchable and functional encryption; post-quantum signature schemas; security protocols; network security; authentication; side-channel attacks; security for cyber-physical systems; security in mobile environment; secure computation and data privacy; and cryptographic protocols.

Optical Fibre Sensors Jan 11 2021 The most complete, one-stop reference for fiber optic sensor theory and application Optical Fiber Sensors: Fundamentals for Development of Optimized Devices constitutes the most complete, comprehensive, and up-to-date reference on the development of optical fiber sensors. Edited by two respected experts in the field and authored by experienced engineers and scientists, the book acts as a guide and a reference for an audience ranging from graduate students to researchers and engineers in the field of fiber optic sensors. The book discusses the fundamentals and foundations of fiber optic sensor technology and provides real-world examples to illuminate and illustrate the concepts found within. In addition to the basic concepts necessary to understand this technology, Optical Fiber Sensors includes chapters on: Distributed sensing with Rayleigh, Raman and Brillouin scattering methods Biomechanical sensing Gas and volatile organic compound sensors Application of nanotechnology to optical fiber sensors Health care and clinical diagnosis And others Graduate students as well as professionals who work with optical fiber sensors will find this volume to be an indispensable resource and reference.

Spatial Data Handling in Big Data Era May 27 2022 This proceedings volume introduces recent work on the storage, retrieval and visualization of spatial Big Data, data-intensive geospatial computing and related data quality issues. Further, it addresses traditional topics such as multi-scale spatial data representations, knowledge discovery, space-time modeling, and geological applications. Spatial analysis and data mining are increasingly facing the challenges of Big Data as more and more types of crowd sourcing spatial data are used in GIScience, such as movement trajectories, cellular phone calls, and social networks. In order to effectively manage these massive data collections, new methods and algorithms are called for. The book highlights state-of-the-art advances in the handling and application of spatial data, especially spatial Big Data, offering a cutting-edge reference guide for graduate students, researchers and practitioners in the field of GIScience.

Spatial Data Mining Jun 15 2021 · This book is an updated version of a well-received book previously published in Chinese by Science Press of China (the first edition in 2006 and the second in 2013). It offers a systematic and practical overview of spatial data mining, which combines computer science and geo-spatial information science, allowing each field to profit from the knowledge and techniques of the other. To address the spatiotemporal specialties of spatial data, the authors introduce the key concepts and algorithms of the data field, cloud model, mining view, and Deren Li methods. The data field method captures the interactions between spatial objects by diffusing the data contribution from a universe of samples to a universe of population, thereby bridging the gap between the data model and the recognition model. The cloud model is a qualitative method that utilizes quantitative numerical characters to bridge the gap between pure data and linguistic concepts. The mining view method discriminates the different requirements by using scale, hierarchy, and granularity in order to uncover the anisotropy of spatial data mining. The Deren Li method performs data preprocessing to prepare it for further knowledge discovery by selecting a weight for iteration in order to clean the observed spatial data as much as possible. In addition to the essential algorithms and techniques, the book provides application examples of spatial data mining in geographic information science and remote sensing. The practical projects include spatiotemporal video data mining for protecting public security, serial image mining on nighttime lights for assessing the severity of the Syrian Crisis, and the applications in the government project ‘the Belt and Road Initiatives’.

Computational Science and Its Applications - ICCSA 2010 Jan 23 2022 The four-volume set LNCS 6016 - 6019 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications, ICCSA 2010, held in Fukuoka, Japan, in March 2010. The four volumes contain papers presenting a wealth of original research results in the field of computational science, from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques. The topics of the fully refereed

papers are structured according to the five major conference themes: computational methods, algorithms and scientific application, high performance computing and networks, geometric modelling, graphics and visualization, advanced and emerging applications, and information systems and technologies. Moreover, submissions from more than 30 special sessions and workshops contribute to this publication. These cover These cover topics such as geographical analysis, urban modeling, spatial statistics, wireless and ad hoc networking, logical, scientific and computational aspects of pulse phenomena in transitions, high-performance computing and information visualization, sensor network and its applications, molecular simulations structures and processes, collective evolutionary systems, software engineering processes and applications, molecular simulations structures and processes, internet communication security, security and privacy in pervasive computing environments, and mobile communications.

Advances in Information Technology Research and Application: 2011 Edition Apr 01 2020 Advances in Information Technology Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Information Technology. The editors have built Advances in Information Technology Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Information Technology in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Information Technology Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Water Optics and Water Colour Remote Sensing Sep 30 2022 This book is a printed edition of the Special Issue "Water Optics and Water Colour Remote Sensing" that was published in Remote Sensing

Advances in Quantitative Remote Sensing in China – In Memory of Prof. Xiaowen Li Jun 23 2019 Quantitative land remote sensing has recently advanced dramatically, particularly in China. It has been largely driven by vast governmental investment, the availability of a huge amount of Chinese satellite data, geospatial information requirements for addressing pressing environmental issues and other societal benefits. Many individuals have also fostered and made great contributions to its development, and Prof. Xiaowen Li was one of these leading figures. This book is published in memory of Prof. Li. The papers collected in this book cover topics from surface reflectance simulation, inversion algorithm and estimation of variables, to applications in optical, thermal, Lidar and microwave remote sensing. The wide range of variables include directional reflectance, chlorophyll fluorescence, aerosol optical depth, incident solar radiation, albedo, surface temperature, upward longwave radiation, leaf area index, fractional vegetation cover, forest biomass, precipitation, evapotranspiration, freeze/thaw snow cover, vegetation productivity, phenology and biodiversity indicators. They clearly reflect the current level of research in this area. This book constitutes an excellent reference suitable for upper-level undergraduate students, graduate students and professionals in remote sensing.

Proceedings, 31st International Symposium on Remote Sensing of Environment Nov 20 2021

Human-Centered Urban Planning and Design in China: Volume I Dec 10 2020 This book explores a more human-centered development pathway associated with the ideological shift from "quantity" to "quality" growth in the new era of Chinese urbanization. Sustainable urban and rural planning should be "people-centered" and concerned about urban-rural coordination. The authors argue that successful urban and rural development in China should promote social equity, culture diversity, economic prosperity and sustainable built form. This book prompts Chinese urbanists to reconsider and explore a sustainable and people-first planning approach with Chinese characteristics. The breadth and depth of this book is of particular interest to the

faculty members, students, practitioners and the general public who are interested in subjects like urban and regional planning, rural planning, housing and community development, infrastructure planning, climate change and ecological planning, environmental planning, social equity and beyond. This book dealing with human-centered urban planning and development, rural planning and urban-rural coordination in China is part of a 2 volume set. Volume II discusses human-centered urban design and placemaking, human activities and urban mobility.

Remote Sensing of Atmospheric Pollution Sep 18 2021 This book is a printed edition of the Special Issue "Remote Sensing of Atmospheric Pollution" that was published in Remote Sensing

MIPPR 2005 Apr 13 2021 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.

Urban High-Resolution Remote Sensing Aug 30 2022 With urbanization as a global phenomenon, there is a need for data and information about these terrains. Urban remote sensing techniques provide critical physical input and intelligence for preparing base maps, formulating planning proposals, and monitoring implementations. Likewise these methodologies help with understanding the biophysical properties, patterns, and process of urban landscapes, as well as mapping and monitoring urban land cover and spatial extent. Advanced sensor technologies and image processing methodologies such as deep learning, data mining, etc., facilitate the wide applications of remote sensing technology in urban areas. This book presents advanced image processing methods and algorithms focused on three very important roots of urban remote sensing: 3D urban modelling using different remotely sensed data, urban orthophotomap generation, and urban feature extraction, which are also today’s real challenges in high resolution remote sensing. Data generated by remote sensing, with its repetitive and synoptic viewing and multispectral capabilities, constitutes a powerful tool for mapping and monitoring emerging changes in the city's urban core, as well as in peripheral areas. Features: Provides advances in emerging methods and algorithms in image processing and technology Uses algorithms and methodologies for handling high-resolution imagery from a ground sampling distance (GSD) less than 1.0 meter Focuses on 3D urban modelling, orthorectification methodologies, and urban feature extraction algorithms from high-resolution remotely sensed imagery Demonstrates how to apply up-to-date techniques to the problems identified and how to analyze research results Presents methods and algorithms for monitoring, analyzing, and modeling urban growth, urban planning, and socio-economic developments In this book, readers are provided with valuable research studies and applications-oriented chapters in areas such as urban trees, soil moisture mapping, city transportation, urban remote sensing big data, etc.

Handbook of Research on Fuzzy and Rough Set Theory in Organizational Decision Making Mar 01 2020 Soft computing techniques are innovative tools that use nature-inspired algorithms to run predictive analysis of industries from business to software measurement. These tools have gained momentum in recent years for their practicality and flexibility. The Handbook of Research on Fuzzy and Rough Set Theory in Organizational Decision Making collects both empirical and applied research in the field of fuzzy set theory, and bridges the gap between the application of soft computational approaches and the organizational decision making process. This publication is a pivotal reference for business professionals, IT specialists, software engineers, and advanced students of business and information technology.

Proceedings of the ... International Symposium on Remote Sensing of Environment Aug 18 2021

Web and Wireless Geographical Information Systems Jul 29 2022 This book constitutes the refereed conference proceedings of the 13th International Symposium, W2GIS 2014, held in Seoul, South Korea, in May 2014. The 12 revised full papers presented were carefully selected from numerous

submissions. The program covers a wide range of topics including Communication and Parallel Processing for Geospatial Data, Geo-Social Net, Crowdsourcing, and Trajectory, Geo-Sensor Network, Applications of W2GIS, Indoor GIS.

Geospatial Data Analytics and Urban Applications May 03 2020 This book highlights advanced applications of geospatial data analytics to address real-world issues in urban society. With a connected world, we are generating spatial at unprecedented rates which can be harnessed for insightful analytics which define the way we analyze past events and define the future directions. This book is an anthology of applications of spatial data and analytics performed on them for gaining insights which can be used for problem solving in an urban setting. Each chapter is contributed by spatially aware data scientists in the making who present spatial perspectives drawn on spatial big data. The book shall benefit mature researchers and student alike to discourse a variety of urban applications which display the use of machine learning algorithms on spatial big data for real-world problem solving.

Mobile Ad-hoc and Sensor Networks Oct 08 2020 This book constitutes the refereed proceedings of the Third International Conference on Mobile Ad-hoc and Sensor Networks, MSN 2007, held in Beijing, China, in December 2007. The papers address all current issues in mobile ad hoc and sensor networks and are organized in topical sections on routing, network protocols, energy efficiency, data processing, self-organization and synchronization, deployment and application, as well as security.

Advances in SAR: Sensors, Methodologies, and Applications Dec 22 2021 This book is a printed edition of the Special Issue "Advances in SAR: Sensors, Methodologies, and Applications" that was published in Remote Sensing

Remote Sensed Data and Processing Methodologies for 3D Virtual Reconstruction and Visualization of Complex Architectures Nov 01 2022 This book is a printed edition of the Special Issue "Remote Sensed Data and Processing Methodologies for 3D Virtual Reconstruction and Visualization of Complex Architectures" that was published in Remote Sensing

Applications of Artificial Neural Networks for Nonlinear Data Nov 28 2019 Processing information and analyzing data efficiently and effectively is crucial for any company that wishes to stay competitive in its respective market. Nonlinear data presents new challenges to organizations, however, due to its complexity and unpredictability. The only technology that can properly handle this form of data is artificial neural networks. These modeling systems present a high level of benefits in analyzing complex data in a proficient manner, yet considerable research on the specific applications of these intelligent components is significantly deficient. Applications of Artificial Neural Networks for Nonlinear Data is a collection of innovative research on the contemporary nature of artificial neural networks and their specific implementations within data analysis. While highlighting topics including propagation functions, optimization techniques, and learning methodologies, this book is ideally designed for researchers, statisticians, academicians, developers, scientists, practitioners, students, and educators seeking current research on the use of artificial neural networks in diagnosing and solving nonparametric problems.

Environmental Degradation in Asia Feb 09 2021 This unique book focuses on environmental degradation in Asian countries including land degradation and soil erosion. The land degradation covers assessing environmental degradation using geospatial technology, land use land cover mapping, environmental and anthropogenic degradation, assessment of land degradation vulnerability, evaluation of the impact of earthquake and the environmental control of the sand dunes. It also addresses the soil degradation and environmental pollution and presents several case studies such as tectonic activity and erosion, assessment of aircraft sound, soil degradation assessment for the arid territories, soil pollution, waste engine oil contamination, soil degradation, soil erosion modelling, land use and land cover change and its effect on soil erosion changes. Additionally, the book

discusses the impact of climate change, and human activities including urban environmental quality, air pollution and the impact of armed conflict on the environment. Moreover, topics such as vegetation degradation including forest changes, hydrological and agricultural drought are presented. The book includes authors and scientists from Egypt, Iraq, Iran, India, Mongolia, United Arab Emirates, Uzbekistan, Republic of Kazakhstan, USA, Turkey, South Africa, Italy, China, Malaysia, Poland and Russia. Graduate students, researchers, engineers, policy planners, policymakers and stockholders could benefit from the information and the knowledge in this book.

Advances in Artificial Systems for Logistics Engineering Aug 25 2019 This book comprises high-quality refereed research papers presented at the 2021 International Conference on Artificial Intelligence and Logistics Engineering (ICAILE2021), held in Kyiv, Ukraine, on 2224 January 2021, organized jointly by Wuhan University of Technology, National Technical University of Ukraine Igor Sikorsky Kyiv Polytechnic Institute and the International Research Association of Modern Education and Computer Science. The topics discussed in the book include state-of-the-art papers in artificial intelligence and logistics engineering. It is an excellent source of references for researchers, graduate students, engineers, management practitioners and undergraduate students interested in artificial intelligence and their applications in logistics engineering.

Annual Report on China's Response to Climate Change (2017) Oct 20 2021 This book is written by experts from Institute of Urban and Environmental Studies of the Chinese Academy of Social Sciences, and National Climate Center, this book provides an overview of China's effort to implement the Paris Agreement. In addition to measures put in place to reduce runoff in cities, improve flood risk management, promote decarbonization, and combat desertification, the book also addresses issues such as scientific assessment in relation to climate change, the implications of US domestic climate politics for China-US relations, and China's emerging leadership role in the post-Paris age. The volume is a must-read for anybody who wants to understand how China's aggressive climate adaptation policies help shape the country's growing weight in global climate governance.

Mobile Ad-hoc and Sensor Networks Jul 17 2021 This book constitutes the refereed proceedings of the 13th International Conference on Mobile Ad-hoc and Sensor Networks, MSN 2017, held in Beijing, China, in December 2017. The 39 revised full papers presented were carefully reviewed and selected from 145 submissions. The papers address issues such as multi-hop wireless networks and wireless mesh networks; sensor and actuator networks; vehicle ad hoc networks; mobile social network; delay tolerant networks and opportunistic networking; cyber-physical systems; internet of things; system modeling and performance analysis; routing and network protocols; data transport and management in mobile networks; resource management and wireless QoS provisioning; security and privacy; cross layer design and optimization; novel applications and architectures.

Issues in Networks Research and Application: 2011 Edition Jan 29 2020 Issues in Networks Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Networks Research and Application. The editors have built Issues in Networks Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Networks Research and Application in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Networks Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Applications of Remote Sensing Data in Mapping of Forest Growing Stock and Biomass Apr 25 2022 This Special Issue (SI), entitled "Applications of

Remote Sensing Data in Mapping of Forest Growing Stock and Biomass", resulted from 13 peer-reviewed papers dedicated to Forestry and Biomass mapping, characterization and accounting. The papers' authors presented improvements in Remote Sensing processing techniques on satellite images, drone-acquired images and LiDAR images, both aerial and terrestrial. Regarding the images' classification models, all authors presented supervised methods, such as Random Forest, complemented by GIS routines and biophysical variables measured on the field, which were properly georeferenced. The achieved results enable the statement that remote imagery could be successfully used as a data source for regression analysis and formulation and, in this way, used in forestry actions such as canopy structure analysis and mapping, or to estimate biomass. This collection of papers, presented in the form of a book, brings together 13 articles covering various forest issues and issues in forest biomass calculation, constituting an important work manual for those who use mixed GIS and RS techniques.

Big Data Support of Urban Planning and Management Sep 26 2019 In the era of big data, this book explores the new challenges of urban-rural planning and management from a practical perspective based on a multidisciplinary project. Researchers as contributors to this book have accomplished their projects by using big data and relevant data mining technologies for investigating the possibilities of big data, such as that obtained through cell phones, social network systems and smart cards instead of conventional survey data for urban planning support. This book showcases active researchers who share their experiences and ideas on human mobility, accessibility and recognition of places, connectivity of transportation and urban structure in order to provide effective analytic and forecasting tools for smart city planning and design solutions in China.

Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2011 Edition Mar 25 2022 Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology. The editors have built Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Sensors and Actuators in Smart Cities Aug 06 2020 This book is a printed edition of the Special Issue "Sensors and Actuators in Smart Cities" that was published in JSAN

Learning to Understand Remote Sensing Images May 15 2021 With the recent advances in remote sensing technologies for Earth observation, many different remote sensors are collecting data with distinctive properties. The obtained data are so large and complex that analyzing them manually becomes impractical or even impossible. Therefore, understanding remote sensing images effectively, in connection with physics, has been the primary concern of the remote sensing research community in recent years. For this purpose, machine learning is thought to be a promising technique because it can make the system learn to improve itself. With this distinctive characteristic, the algorithms will be more adaptive, automatic, and intelligent. This book introduces some of the most challenging issues of machine learning in the field of remote sensing, and the latest advanced technologies developed for different applications. It integrates with multi-source/multi-temporal/multi-scale data, and mainly focuses on learning to understand

remote sensing images. Particularly, it presents many more effective techniques based on the popular concepts of deep learning and big data to reach new heights of data understanding. Through reporting recent advances in the machine learning approaches towards analyzing and understanding remote sensing images, this book can help readers become more familiar with knowledge frontier and foster an increased interest in this field.
Recent Advances and Applications in Remote Sensing Nov 08 2020 Remote sensing was the primary data source since the launch of the first environmental monitoring satellite back in 1972. In the past five decades, remote sensing technology has come a long way and evolved into a mature science. Even so, new technologies, new theories, new methodologies, and new applications continue to emerge. With the rapid pace of technological advancement, it is essential to share experiences especially between different disciplines, either on breakthroughs in new theory or understanding, or applications of remote sensing on real world issues. Disciplines or fields covered in this book include geography, geology, agriculture, forestry, botany, and oceanography. Though remote sensing may be used differently in various disciplines, the principles are similar, if not the same. This book will be valuable to scientists, scholars, working professionals, or students who use remote sensing in their work, and are interested in learning how others use remote sensing in different ways.
Remote Sensing Based Building Extraction Jun 27 2022 Building extraction from remote sensing data plays an important role in urban planning, disaster management, navigation, updating geographic databases, and several other geospatial applications. Even though significant research has been carried out for more than two decades, the success of automatic building extraction and modeling is still largely impeded by scene complexity, incomplete cue extraction, and sensor dependency of data. Most recently, deep neural networks (DNN) have been widely applied for high classification accuracy in various areas including land-cover and land-use classification. Therefore, intelligent and innovative algorithms are needed for the success of automatic building extraction and modeling. This Special Issue focuses on newly developed methods for classification and feature extraction from remote sensing data for automatic building extraction and 3D
Dependability in Sensor, Cloud, and Big Data Systems and Applications Jul 05 2020 This book constitutes the refereed proceedings of the 5th International Conference on Dependability in Sensor, Cloud, and Big Data Systems and Applications, DependSys, held in Guangzhou, China, in November 2019. The volume presents 39 full papers, which were carefully reviewed and selected from 112 submissions. The papers are organized in topical sections on ?dependability and security fundamentals and technologies; dependable and secure systems; dependable and secure applications; dependability and security measures and assessments; explainable artificial inteligence for cyberspace.
Image and Graphics Jul 25 2019 This book constitutes the refereed conference proceedings of the 8th International Conference on Image and Graphics, ICIG 2015 held in Tianjin, China, in August 2015. The 164 revised full papers and 6 special issue papers were carefully reviewed and selected from 339 submissions. The papers focus on various advances of theory, techniques and algorithms in the fields of images and graphics.