

Erdas Imagine 2015

Thank you unquestionably much for downloading **Erdas Imagine 2015**. Maybe you have knowledge that, people have look numerous time for their favorite books when this Erdas Imagine 2015, but end going on in harmful downloads.

Rather than enjoying a good book similar to a mug of coffee in the afternoon, then again they juggled when some harmful virus inside their computer. **Erdas Imagine 2015** is easily reached in our digital library an online right of entry to it is set as public consequently you can download it instantly. Our digital library saves in multiple countries, allowing you to acquire the most less latency period to download any of our books subsequent to this one. Merely said, the Erdas Imagine 2015 is universally compatible taking into account any devices to read.

Erdas Imagine 2015

2022-08-13

BALLARD PAGE

Sustainable Smart Cities in India Springer

Sustainable Urban Futures in Africa provides a variety of conventional and emerging theoretical frameworks to inform understandings and responses to critical urban development issues such as urbanisation, climate change, housing/slum, informality, urban sprawl, urban ecosystem services and urban poverty, among others, within the context of the sustainable development goals (SDGs) in Africa. This book addresses topics including challenges to spatial urban development, how spatial planning is delivered, how different urbanisation variables influence the development of different forms of urban systems and settlements in Africa, how city authorities could use old and new methods of land administration to produce sustainable urban spaces in Africa, and the role of local activism is causing important changes in the built environment. Chapters are written by a diverse range of African scholars and practitioners in urban planning and policy design, environmental science and policy, sociology, agriculture, natural resources management, environmental law, and politics. Urban Africa has huge resource potential – both human and natural resources – that can stimulate sustainable development when effectively harnessed. *Sustainable Urban Futures in Africa* provides support for the SDGs in urban Africa and will be of interest to students and researchers, professionals and policymakers, and readers of urban studies, spatial planning, geography, governance, and other social sciences.

Bentham Science Publishers

The 3rd International Conference on Foundations and Frontiers in Computer, Communication and Electrical Engineering is a notable event which brings together academia, researchers, engineers and students in the fields of Electronics and Communication, Computer and Electrical Engineering making the conference a perfect platform to share experience, f

Composition, Structure and Function John Wiley & Sons

High spatial resolution remote sensing is an area of considerable current interest and builds on developments in object-based image analysis, commercial high-resolution satellite sensors, and UAVs. It captures more details through high and very high resolution images (10 to 100 cm/pixel). This unprecedented level of detail offers the potential extraction of a range of multi-resource management information, such as precision farming, invasive and endangered vegetative species delineation, forest gap sizes and distribution, locations of highly valued habitats, or sub-canopy topographic information. Information extracted in high spatial remote sensing data right after a devastating earthquake can help assess the damage to roads and buildings and aid in emergency planning for contact and evacuation. To effectively utilize information contained in high spatial resolution imagery, *High Spatial Resolution Remote Sensing: Data, Analysis, and Applications* addresses some key questions: What are the

challenges of using new sensors and new platforms? What are the cutting-edge methods for fine-level information extraction from high spatial resolution images? How can high spatial resolution data improve the quantification and characterization of physical-environmental or human patterns and processes? The answers are built in three separate parts: (1) data acquisition and preprocessing, (2) algorithms and techniques, and (3) case studies and applications. They discuss the opportunities and challenges of using new sensors and platforms and high spatial resolution remote sensing data and recent developments with a focus on UAVs. This work addresses the issues related to high spatial image processing and introduces cutting-edge methods, summarizes state-of-the-art high spatial resolution applications, and demonstrates how high spatial resolution remote sensing can support the extraction of detailed information needed in different systems. Using various high spatial resolution data, the third part of this book covers a range of unique applications, from grasslands to wetlands, karst areas, and cherry orchard trees.

Hydrological Modeling Springer Nature

Combining versatile data sets from multiple satellite sensors with advanced thematic information retrieval is a powerful way for studying complex earth systems. The book *Multisensor Data Fusion and Machine Learning for Environmental Remote Sensing* offers complete understanding of the basic scientific principles needed to perform image processing, gap filling, data merging, data fusion, machine learning, and feature extraction. Written by two experts in remote sensing, the book presents the required basic concepts, tools, algorithms, platforms, and technology hubs toward advanced integration. By merging and fusing data sets collected from different satellite sensors with common features, we are enabled to utilize the strength of each satellite sensor to the maximum extent. The inclusion of machine learning or data mining techniques to aid in feature extraction after gap filling, data merging and/or data fusion further empowers earth observation, leading to confirm the whole is greater than the sum of its parts. Contemporary applications discussed in this book make all essential knowledge seamlessly integrated by an interdisciplinary manner. These case-based engineering practices uniquely illustrate how to improve such an emerging field of importance to cope with the most challenging real-world environmental monitoring issues.

IoT and Analytics for Agriculture Springer Nature

Map Librarianship identifies basic geoliteracy concepts and enhances reference and instruction skills by providing details on finding, downloading, delivering, and assessing maps, remotely sensed imagery, and other geospatial resources and services, primarily from trusted government sources. By offering descriptions of traditional maps, geographic information systems (GIS), remote sensing, and other geospatial technologies, the book provides a timely and practical guide for the map and geospatial librarian to blend confidence in traditional library skill sets. Includes rarely discussed concepts of citing and referencing maps and geospatial data, fair use and copyright Creates an

awareness and appreciation of existing print map collections, while building digital stewardship with surrogate map and aerial imagery collections. Provides an introduction to the theory and applications of GIS, remote sensing, participatory neogeography and neocartography practices, and other geospatial technologies. Includes a list of geospatial resources with descriptions and illustrations of commonly used map types and formats, online geospatial data sources, and an introduction to the most commonly used geospatial software packages available, on both desktop and mobile platforms.

Map Librarianship CRC Press

This book focusses on hydrological modeling, water management, and water governance. It covers the applications of remote sensing and GIS tools and techniques for land use and land cover classifications, estimation of precipitation, evaluation of morphological changes, and monitoring of soil moisture variability. Moreover, remote sensing and GIS techniques have been applied for crop mapping to assess cropping patterns, computation of reference crop evapotranspiration, and crop coefficient. Hydrological modeling studies have been carried out to address various issues in the water sector. MODFLOW model was successfully applied for groundwater modeling and groundwater recharge estimation. Runoff modeling has been carried out to simulate the snowmelt runoff together with the rainfall and sub-surface flow contributions for snow-fed basins. A study has been included, which predicts the impact of the land use and land cover on stream flow. Various problems in the water sector have been addressed employing hydrological models such as SWAT, ArcSWAT, and VIC. An experimental study has been presented wherein the laboratory performance of rainfall simulator has been evaluated. Hydrological modeling studies involving modifications in the curve number methodology for simulation of floods and sediment load have also been presented.

This book is useful for academicians, water practitioners, scientists, water managers, environmentalists, and administrators, NGOs, researchers, and students who are involved in water management with the focus on hydrological modeling, water management, and water governance. Water Management and Water Governance Cloud Publications

This book is a compilation of innovative work on image processing applications for renewable energy systems. The chapters in the book describe the use of neural networks in multi-directional dynamic, topographical data frameworks which are designed to account for the distinctive contemporary issues faced when managing environmentally friendly power generation systems. The topics covered include uncertainty analysis methods, computing technologies, automated control systems, performance analysis, riverfront analysis through image processing and solar power estimation methods, to name a few. The information is also complemented with a review of problems in the electric power sector in India. This book is beneficial for professionals and researchers who work on hybrid techniques of GIS, remote sensing, image processing and the implementation of these techniques for utilizing renewable energy resources. Engineers who work on advanced algorithms for renewable energy applications will also get an updated perspective about relevant innovations in this industrial sector.

Hyperspectral Remote Sensing CRC Press

Abstract : This thesis provides an overview of oil spill scenarios and the remote sensing methods used for detection and mapping the spills. It also discusses the different kinds of thermal sensors used in oil spills detection. As UAS is becoming an important player in the oil and gas industry for the low operating costs involved, this research involved working with a cheap thermal airborne sensor mounted on DJI Phantom 4 system. Data was

collected in two scenarios, first scenario is collecting data in Michigan's Upper Peninsula at a petroleum company location and the second scenario was an indoor experiment simulating an offshore spill. The aim of this research is to inspect the capability of Lepton LWIR inexpensive sensor to detect the areas contaminated with oil. Data processing to create classification maps involved using ArcGIS 10.5.1, ERDAS Imagine 2015 and ENVI 5.3. Depending accuracy assessment (confusion matrices) for the classified images and comparing classified images with ground truth, results shows the Lepton thermal sensor worked well in differentiating oil from water and was not a good option when there are many objects in the area of interest. Future research recommendations are presented in this document.

Engineering Implications for Agriculture, Industry, and the Environment Springer Nature

Globally, a wide variety of organizations rely on ERDAS IMAGINE® daily, including local, state and national mapping agencies, transportation departments, defense organizations, engineering and utility companies and many more. ERDAS IMAGINE® is a powerful software package used to collect, process, analyze and understand raw geospatial data, it has become the industry standard in digital image processing. This book provides the first comprehensive guide to develop a proficiency in digital image processing of remotely sensed data from a research/real-world application perspective, along with robust hands-on, start-to-finish examples that represent the most commonly/traditionally used methods.

Image Processing in Renewable: Energy Resources Opportunities and Challenges Springer Nature

This book provides an overview of the ecological indicators of landscape dynamics in the context of geographical landscape integration. Landscape dynamics depicts every change that occurs in the physical, biological, and cognitive assets of a landscape. To understand and interpret the complex physical, biological, and cognitive phenomena of landscapes, it is necessary to operate conceptually and practically on a broad range of spatial and temporal scales. Rapid land use changes have become a concern to environmentalists and planners because of their impacts on the natural ecosystem, which further determines socioeconomic dynamics. In this regard, the book discusses case studies that share new insights into how landscape patterns and processes impact small creatures, and how small creatures in turn influence landscape structure and composition. In turn, the relevant aspects of land use and land cover dynamics are covered, and the multi-faceted relationship between the substrata and ecological community is highlighted. The book is unique in its focus on the application of spatial informatics such as automatic building extraction from high-resolution imagery; a soil resource inventory for meeting the challenges of land degradation; hydrological modeling; the temporal variation analysis of glacier area and the identification and mapping of glacial lakes; morphometric analysis of river basins; and the monitoring and modeling of urban sprawl, among other features.

Data, Analysis, and Applications CRC Press

In the 1960s, the governments of Colombia, Peru, and Bolivia launched agricultural settlement programs in each country's vast Amazonian frontier lowlands. Two decades later, these exact same zones had transformed into the centers of the illicit cocaine boom of the Americas. Drawing on concepts from both history and anthropology, *The Origins of Cocaine* explores how three countries with divergent different mid-century political trajectories ended up with parallel outcomes in illicit frontier economies and cocalero cultures. Bringing together transnational, national, and local analyses, the volume provides

an in-depth examination of the deep origins of drug economics in the Americas. As the first substantial study on the shift from agrarian colonization to narcotization, *The Origins of Cocaine* will appeal to scholars and postgraduate students of Latin American history, anthropology, globalization, development and environmental studies.

ComNet 2016 CRC Press

This book addresses the various challenges in achieving sustainable groundwater development, management, and planning in semi-arid regions, with a focus on India, and discusses advanced remote sensing and GIS techniques for the estimation and management of groundwater resources. The book is timely as there is a need for a better understanding of the various tools and methods required to efficiently and sustainably meet the growing demand for clean surface and groundwater in developing countries, and how these tools can be combined with other strategies in a multi-disciplinary fashion to achieve this goal in water-scarce regions. To wit, the book combines remote sensing and GIS techniques, runoff modeling, aquifer mapping, land use and land cover analyses, evapotranspiration estimation, crop coefficients, and water policy approaches. This will be of use to academics, policymakers, social scientists, and professionals involved in the various aspects of sustainable groundwater development, planning, and management.

The Origins of Cocaine Springer Nature

Ethnopharmacology and Biodiversity of Medicinal Plants provides a multitude of contemporary views on the diversity of medicinal plants, discussing both their traditional uses and therapeutic claims. This book emphasizes the importance of cataloging ethnomedical information as well as examining and preserving the diversity of traditional medicines. It also discusses the challenges present with limited access to modern medicine and the ways in which research can be conducted to enhance these modern practices. The book also explores the conservation procedures for endangered plant species and discusses their relevance to ethnopharmacology. Each chapter of this book relays the research of experts in the field who conducted research in diverse landscapes of India, providing a detailed account of the basic and applied approaches of ethnobotany and ethnopharmacology. The book reviews multiple processes pertaining to medicinal plants, such as collecting the traditional therapeutic values and validation methods. It also explores developments in the field such as the diversity and medicinal potential of unexplored plant species and applications in drug formulation to fight against anti-microbial resistance (AMR).

Image Processing and Data Analysis with ERDAS IMAGINE® Chandos Publishing

This book comprises select proceedings of the International Conference on Smart Technologies for Energy, Environment, and Sustainable Development (ICSTEESD 2018). The chapters are broadly divided into three focus areas, viz. energy, environment, and sustainable development, and discusses the relevance and applications of smart technologies in these fields. A wide variety of topics such as renewable energy, energy conservation and management, energy policy and planning, environmental management, marine environment, green building, smart cities, smart transportation are covered in this book. Researchers and professionals from varied engineering backgrounds contribute chapters with an aim to provide economically viable solutions to sustainable development challenges. The book will prove useful for academics, professionals, and policy makers interested in sustainable development.

Bearing Capacity of Roads, Railways and Airfields Springer

This book comprises select proceedings of the First International Conference on Geomatics in Civil Engineering (ICGCE 2018). This

book presents latest research on applications of geomatics engineering in different domains of civil engineering, like structural engineering, geotechnical engineering, hydraulic and water resources engineering, environmental engineering and transportation engineering. It also covers miscellaneous applications of geomatics in a wide range of technical and societal problems making use of geospatial information, engineering principles, and relational data structures involving measurement sciences. The book proves to be very useful for the scientific and engineering community working in the field of geomatics and geospatial technology.

High Spatial Resolution Remote Sensing Springer Nature 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.

Remote Sensing Handbook - Three Volume Set Springer Nature

This book presents fundamental and applied research aimed at the development of smart cities across India. Based on the exploration of an extensive array of multidisciplinary literature, this book discusses critical factors of smart city initiatives: management and organization, technology, governance, policy, people and communities, economy, infrastructure, and natural environment. These factors are broadly covered under the integrative framework of the book to examine the vision and challenges of smart city initiatives. The book suggests directions and agendas for smart city research and outlines practical implications for government professionals, students, research scholars and policy makers. A lot of work is happening on smart cities as it is an upcoming area of research and development. At international level, and even in India, the concept of smart cities concept is a hot topic at universities, research centers, ministries, transport departments, civic bodies, environment, energy and disaster organizations, town planners and policy makers. This book provides ideas and information to government officials, investors, experts and research students.

Multisensor Data Fusion and Machine Learning for Environmental Remote Sensing Springer

This book explains to governments, decision makers and disaster professionals the potential uses of recent technologies for disaster monitoring and risk reduction based on the knowledge and experience of prominent experts/researchers in the relevant fields. It discusses the application of recent technological developments for emerging disaster risks in today's societies and deliberates on the various aspects of disaster risk reduction strategies, especially through sustainable community resilience and responses. This book consists of selected invited papers on disaster management, which focus on community resilience and responses towards disaster risk reduction based on experiences, and closely examines the coordinated research activities involving all stakeholders, especially the communities at risk. Many regions of the world and aspects of disaster risk and its management are covered. It is described how recent technologies will support better understanding and action to reduce the number and impact of disasters in future. The principal audience for this book is researchers, urban planners, policy makers, as well as students.

Satellite-Based Mitigation and Adaptation Scenarios for Sea Level Rise in the Lower Niger Delta CRC Press

This Special Issue is a collection of papers addressing the scientific use of data acquired in the course of the TerraSAR-X mission 10 years after launch. The articles deal with the mission

itself, the accuracy of the products, with differential interferometry, and with applications in the domains cryosphere, oceans, wetlands, and urban areas.

Sustainable Urban Futures in Africa Springer

This book identifies the need for modeling auxiliary knowledge of the terrain to enhance the prediction accuracy of meteorological parameters. The spatial and spatio-temporal prediction of these parameters are important for the scientific community, and the semantic kriging (SemK) and its variants facilitate different types of prediction and forecasting, such as spatial and spatio-

temporal, a-priori and a-posterior, univariate and multivariate. As such, the book also covers the process of deriving the meteorological parameters from raw satellite remote sensing imagery, and helps understanding different prediction method categories and the relation between spatial interpolation methods and other prediction methods. The book is a valuable resource for researchers working in the area of prediction of meteorological parameters, semantic analysis (ontology-based reasoning) of the terrain, and improving predictions using auxiliary knowledge of the terrain.