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this book addresses the environmental challenges that libya and similar countries in the regions are currently facing each chapter of this book provides a methodology using remote sensing rs and geographical information systems gis dealing with one of these environmental challenges such as monitoring and mapping soil salinity and prediction of soil properties monitoring and mapping of land degradation spatiotemporal land use cover agricultural drought monitoring hydrological applications such as spatial rainfall distribution surface runoff geo morphometric analysis flood hazard assessment and mapping hydrologic and hydraulic modeling pollution hazard assessment and climate related geophysical processes this book also assesses the impacts of climate change on natural resources using both rs and gis as well as other applications covering different parts of libya this book is beneficial for graduate students researchers policy planners and stakeholders in libya as well as other countries that share similar environmental issues also the methodologies followed in the book s chapters can be applied to any other regions around the world with similar landscapes and climatic conditions following the successful publication of the 1st edition in 2009 the 2nd edition maintains its aim to provide an application driven package of essential techniques in image processing and gis together with case studies for demonstration and guidance in remote sensing applications the book therefore has a 3 in 1 structure which pinpoints the intersection between these three individual disciplines and successfully draws them together in a balanced and comprehensive manner the book conveys in depth knowledge of image processing and gis techniques in an accessible and comprehensive manner with clear explanations and conceptual illustrations used throughout to enhance student learning the understanding of key concepts is always emphasised with minimal assumption of prior mathematical experience the book is heavily based on the authors own research many of the author designed image processing techniques are popular around the world for instance the sfim technique has long been adopted by astrum for mass production of their standard pan sharpen imagery data the new edition also includes a completely new chapter on subpixel technology and new case studies based on their recent research geographical information systems gis either as standard gis or custom made historical gis hgis have become quite popular in some historical sub disciplines such as economic and social history or historical geography mainstream history however seems to be rather unaffected by this trend more generally speaking why is it that computer applications in general have failed to make much headway in history departments despite the first steps being undertaken a good forty years ago with the spatial turn in full swing in the humanities and many historians dealing with spatial and geographical questions one would think gis would be welcomed with open arms yet there seems to be no general anticipation by historians of employing gis as a research tool as mentioned hgis are popular chiefly among historical geographers and social and economic historians the latter disciplines seem to be predestined to use such software through the widespread quantitative methodology these disciplines have employed traditionally other historical sub disciplines such as ancient history are also very open to this emerging technology since the scarcity of written sources in this field can be mitigated by inferences made from an hgis that has archaeological data stored in it for example in most of modern history however the use of gis is rarely seen the intellectual benefit that a gis may bring about seems not be apparent to scholars from this sub discipline and others this book wants to investigate and discuss this controversy why does the wider historian community not embrace gis more readily while one cannot deny that the methodologies linked with a gis follow geographical paradigms rather than historical ones the potential of gis as a killer application for digital historical scholarship should be obvious this book brings together authors from geography and history to discuss the value of gis for historical research the focus however will not be on the how but on the why of gis in history this unique book focuses on remote sensing rs and geographical information systems gis in iraq the environmental applications include monitoring and mapping soil salinity and prediction of soil properties monitoring and mapping of land threats proximal sensing for soil monitoring and soil fertility spatiotemporal land use cover agricultural drought monitoring hydrological applications including spatial rainfall distribution surface runoff and drought control geo morphometric analysis and flood simulation hydrologic and hydraulic modelling and the effective management of water resources also this book assesses the impacts of climate change on natural resources using both rs and gis as well as other applications covering different parts of iraq the book chapters include tens of maps extracted from the remotely sensed datasets in addition to tables and statistical relations obtained from the results of the studies of the chapters authors these studies have been conducted in different parts of iraq in the north kurdistan region with its mountainous and undulating lands in western parts which have desert soils and in central and southern iraq where there are salty soils dunes wetlands and marshes the book is written by distinguished scientists from iraq china usa italy iran germany and the czech republic who are interested in the iraqi environment the book is therefore a useful source of information and knowledge on iraqi environment for graduate students researchers policy planners and stakeholders in iraq as well as similar regions this book approaches geological geomorphological and topographical mapping from the point in the workflow at which science ready datasets are available though there have been many individual projects on dynamic maps and online giss in which coding and data processing are given precedence over cartographic principles cartography is more than just processing and displaying spatial data however there are currently no textbooks on this rapidly changing field and methods tend to be shared informally addressing this gap in the literature the respective chapters outline many topics pertaining to cartography and mapping such as the role

and definition of planetary cartography and vs geographic information science theoretical background and practical methodologies in geological mapping science ready versus public ready products a goal procedure focused practical manual of the most commonly used software in planetary mapping which includes generic arcgis and its extensions jmars and specific tools hiview crater tools etc extracting topographic information from images thematic mapping climate geophysics surface modeling change detection landing site selection shared maps dynamic maps on the web planetary gis interfaces crowdsourcing crater counting techniques irregular bodies geological unit symbology mapping center activities and web services all chapters were prepared by authors who have actually produced geological maps or giss for nasa the usgs dlr esa or miigaik taken together they offer an excellent resource for all planetary scientists whose research depends on mapping and for students of astrogeology this book constitutes the thoroughly refereed post proceedings of the international workshop on integrated databases digital images and gis isd 99 held in portland maine usa in june 1999 the 18 revised full papers presented went through a double reviewing process and were selected from nearly 40 original submissions the book is divided into parts on object extraction from raster images geospatial analysis formalisms and modeling and data access this book focuses on monitoring and assessing various environmental processes in tunisia using state of the art remote sensing and gis technologies in addition to addressing the diversity of tunisian landscapes and providing spatial analysis of natural cultivated and urbanized environments it presents and discusses several case studies on integrated rs gis approaches for mapping modeling monitoring and evaluation moreover in this volume authored by experts in the topic from tunisia and other countries authors assess the agro environmental applications from tunisia and offer different methods and applications to environmental processes and risks including drought degradation flood planning yield estimation dust storm detection dry land vulnerability wetland dynamics and others the material presented here will help decision makers plan sustainable landscape and agricultural management policies that preserve biodiversity and contribute to achieving sustainability goals and for researchers it will expose methodological approaches used in different fields of research graduate students and practionioner engineers working in the field of rs gis will also benefit from the book the book ends with a set of conclusions and recommendations to support researchers underscoring the need for further research in this area this book discusses the problems in planning building and management strategies in the wake of application and expansion of remote sensing and gis products in natural resources and infrastructure management the book suggests proactive solutions to problems of natural resources and infrastructure management providing alternatives for strategic planning effective delivery and growth perspectives the uniqueness of the book is its broader spectrum of coverage with related interconnections and interdependences across science engineering and innovation the book contains information that can be downscaled to the local level presenting a wide spectrum of viewpoints and approaches the book is a collective of topics such as application to agriculture and forestry land and landscape agriculture forestry management and deforestation water resources and ecology hydro meteorological climate diagnostics and prognostics water resources management environment management cross scale ecology and resilience urban management urban planning design construction and operations of infrastructure natural disasters novel approaches to upgrade old infrastructure hydro informatics predictive and geospatial data analytics synthesis and management through the various processes tools and technologies contains selected papers from the title international symposium held in january 1994 in san francisco ca sections on remote sensing applications geographic information system gis site characterization and standards detail the latest findings in areas such as digital elevation data landsat t the present volume contains contributions of internationally renowned authors to the theme of interfacing between geostatistics geoinformation systems and spatial data base management systems although some progress has been made toward interfacing there is still only little overlap between the different communities the present volume is intended to provide a bridge between specialists working in these areas the volume first surveys new methodological developments in geostatistics and then reports on applications in traditional areas of geo and environmental sciences and novel application this book provides a cross section of cutting edge research areas being pursued by researchers in spatial data handling and geographic information science gis it presents selected papers on the advancement of spatial data handling and gis in digital cartography geospatial data integration geospatial database and data infrastructures geospatial data modeling gis for sustainable development the interoperability of heterogeneous spatial data systems location based services spatial knowledge discovery and data mining spatial decision support systems spatial data structures and algorithms spatial statistics spatial data quality and uncertainty the visualization of spatial data and web and wireless applications in gis lessons learned in the last several years have given clear indications that the prediction and efficient monitoring of disasters is one of the critical factors in decision making process in this respect space based technologies have the great potential of supplying information in near real time earth observation satellites have already demonstrated their flexibility in providing data to a wide range of applications weather forecasting person and vehicle tracking alerting to disaster forest fire and flood monitoring oil spills spread of desertification monitoring of crop and forestry damages this book focuses on a wider utilisation of remote sensing in disaster management the discussed aspects comprise data access delivery to the users information extraction and analysis management of data and its integration with other data sources airborne and terrestrial imagery gis data etc data standardization organisational and legal aspects of sharing remote sensing information this book presents the state of the art of forest resources assessments and monitoring it provides links to practical applications of forest and natural resource assessment programs it offers an overview of current forest inventory systems and discusses forest

mensuration sampling techniques remote sensing applications geographic and forest information systems and multi resource forest inventory attention is also given to the quantification of non wood goods and services remote sensing and gis is specifically designed to serve as a textbook for undergraduate students of geoinformatics geomatics engineering survey engineering civil engineering geotechnical engineering and environmental engineering it would also prove useful to students of geography geophysics earth resources management environmental management and disaster management it provides a thorough understanding of the basic principles and techniques of remote sensing geographic information systems and their applications with reference to india sponsored by united states department of agriculture forest service remote sensing applications center salt lake city utah and stephen f austin state university arthur temple college of forestry nacogdoches texas 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 issn congress remote sensing with reference to india

Environmental Applications of Remote Sensing and GIS in Libya

2022-06-29

this book addresses the environmental challenges that libya and similar countries in the regions are currently facing each chapter of this book provides a methodology using remote sensing rs and geographical information systems gis dealing with one of these environmental challenges such as monitoring and mapping soil salinity and prediction of soil properties monitoring and mapping of land degradation spatiotemporal land use cover agricultural drought monitoring hydrological applications such as spatial rainfall distribution surface runoff geo morphometric analysis flood hazard assessment and mapping hydrologic and hydraulic modeling pollution hazard assessment and climate related geophysical processes this book also assesses the impacts of climate change on natural resources using both rs and gis as well as other applications covering different parts of libya this book is beneficial for graduate students researchers policy planners and stakeholders in libya as well as other countries that share similar environmental issues also the methodologies followed in the book s chapters can be applied to any other regions around the world with similar landscapes and climatic conditions

Image Processing and GIS for Remote Sensing

2016-03-21

following the successful publication of the 1st edition in 2009 the 2nd edition maintains its aim to provide an application driven package of essential techniques in image processing and gis together with case studies for demonstration and guidance in remote sensing applications the book therefore has a 3 in 1 structure which pinpoints the intersection between these three individual disciplines and successfully draws them together in a balanced and comprehensive manner the book conveys in depth knowledge of image processing and gis techniques in an accessible and comprehensive manner with clear explanations and conceptual illustrations used throughout to enhance student learning the understanding of key concepts is always emphasised with minimal assumption of prior mathematical experience the book is heavily based on the authors own research many of the author designed image processing techniques are popular around the world for instance the sfim technique has long been adopted by astrum for mass production of their standard pan sharpen imagery data the new edition also includes a completely new chapter on subpixel technology and new case studies based on their recent research

History and GIS

2012-12-05

geographical information systems gis either as standard gis or custom made historical gis hgis have become quite popular in some historical sub disciplines such as economic and social history or historical geography mainstream history however seems to be rather unaffected by this trend more generally speaking why is it that computer applications in general have failed to make much headway in history departments despite the first steps being undertaken a good forty years ago with the spatial turn in full swing in the humanities and many historians dealing with spatial and geographical questions one would think gis would be welcomed with open arms yet there seems to be no general anticipation by historians of employing gis as a research tool as mentioned hgis are popular chiefly among historical geographers and social and economic historians the latter disciplines seem to be predestined to use such software through the widespread quantitative methodology these disciplines have employed traditionally other historical sub disciplines such as ancient history are also very open to this emerging technology since the scarcity of written sources in this field can be mitigated by inferences made from an hgis that has archaeological data stored in it for example in most of modern history however the use of gis is rarely seen the intellectual benefit that a gis may bring about seems not be apparent to scholars from this sub discipline and others this book wants to investigate and discuss this controversy why does the wider historian community not embrace gis more readily while one cannot deny that the methodologies linked with a gis follow geographical paradigms rather than historical ones the potential of gis as a killer application for digital historical scholarship should be obvious this book brings together authors from geography and history to discuss the value of gis for historical research the focus however will not be on the how but on the why of gis in history

Environmental Remote Sensing and GIS in Iraq

2019-08-29

this unique book focuses on remote sensing rs and geographical information systems gis in iraq the environmental applications include monitoring and mapping soil salinity and prediction of soil properties monitoring and mapping of land

threats proximal sensing for soil monitoring and soil fertility spatiotemporal land use cover agricultural drought monitoring hydrological applications including spatial rainfall distribution surface runoff and drought control geomorphometric analysis and flood simulation hydrologic and hydraulic modelling and the effective management of water resources also this book assesses the impacts of climate change on natural resources using both rs and gis as well as other applications covering different parts of iraq the book chapters include tens of maps extracted from the remotely sensed datasets in addition to tables and statistical relations obtained from the results of the studies of the chapters authors these studies have been conducted in different parts of iraq in the north kurdistan region with its mountainous and undulating lands in western parts which have desert soils and in central and southern iraq where there are salty soils dunes wetlands and marshes the book is written by distinguished scientists from iraq china usa italy iran germany and the czech republic who are interested in the iraqi environment the book is therefore a useful source of information and knowledge on iraqi environment for graduate students researchers policy planners and stakeholders in iraq as well as similar regions

Planetary Cartography and GIS

2019-02-22

this book approaches geological geomorphological and topographical mapping from the point in the workflow at which science ready datasets are available though there have been many individual projects on dynamic maps and online gis in which coding and data processing are given precedence over cartographic principles cartography is more than just processing and displaying spatial data however there are currently no textbooks on this rapidly changing field and methods tend to be shared informally addressing this gap in the literature the respective chapters outline many topics pertaining to cartography and mapping such as the role and definition of planetary cartography and vs geographic information science theoretical background and practical methodologies in geological mapping science ready versus public ready products a goal procedure focused practical manual of the most commonly used software in planetary mapping which includes generic arcgis and its extensions jmars and specific tools hiview craterools etc extracting topographic information from images thematic mapping climate geophysics surface modeling change detection landing site selection shared maps dynamic maps on the web planetary gis interfaces crowdsourcing crater counting techniques irregular bodies geological unit symbology mapping center activities and web services all chapters were prepared by authors who have actually produced geological maps or gis for nasa the usgs dlr esa or miigaik taken together they offer an excellent resource for all planetary scientists whose research depends on mapping and for students of astrogeology

Integrated Spatial Databases: Digital Images and GIS

2003-06-26

this book constitutes the thoroughly refereed post proceedings of the international workshop on integrated databases digital images and gis isd 99 held in portland maine usa in june 1999 the 18 revised full papers presented went through a double reviewing process and were selected from nearly 40 original submissions the book is divided into parts on object extraction from raster images geospatial analysis formalisms and modeling and data access

Environmental Remote Sensing and GIS in Tunisia

2021-03-12

this book focuses on monitoring and assessing various environmental processes in tunisia using state of the art remote sensing and gis technologies in addition to addressing the diversity of tunisian landscapes and providing spatial analysis of natural cultivated and urbanized environments it presents and discusses several case studies on integrated rs gis approaches for mapping modeling monitoring and evaluation moreover in this volume authored by experts in the topic from tunisia and other countries authors assess the agro environmental applications from tunisia and offer different methods and applications to environmental processes and risks including drought degradation flood planning yield estimation dust storm detection dry land vulnerability wetland dynamics and others the material presented here will help decision makers plan sustainable landscape and agricultural management policies that preserve biodiversity and contribute to achieving sustainability goals and for researchers it will expose methodological approaches used in different fields of research graduate students and practionioner engineers working in the field of rs gis will also benefit from the book the book ends with a set of conclusions and recommendations to support researchers underscoring the need for further research in this area

Application of Remote Sensing and GIS in Natural Resources and Built *Infrastructure Management*

2023-01-01

this book discusses the problems in planning building and management strategies in the wake of application and expansion of remote sensing and gis products in natural resources and infrastructure management the book suggests proactive solutions to problems of natural resources and infrastructure management providing alternatives for strategic planning effective delivery and growth perspectives the uniqueness of the book is its broader spectrum of coverage with related interconnections and interdependences across science engineering and innovation the book contains information that can be downscaled to the local level presenting a wide spectrum of viewpoints and approaches the book is a collective of topics such as application to agriculture and forestry land and landscape agriculture forestry management and deforestation water resources and ecology hydro meteorological climate diagnostics and prognostics water resources management environment management cross scale ecology and resilience urban management urban planning design construction and operations of infrastructure natural disasters novel approaches to upgrade old infrastructure hydro informatics predictive and geospatial data analytics synthesis and management through the various processes tools and technologies

Remote Sensing and GIS for Site Characterization

1996

contains selected papers from the title international symposium held in january 1994 in san francisco ca sections on remote sensing applications geographic information system gis site characterization and standards detail the latest findings in areas such as digital elevation data landsat t

PREDICTIVE ANALYSIS USING DATA MINING AND GIS TO STUDY THE IMPACT OF AIR AND WATER POLLUTANTS AS ONE OF THE FACTORS AFFECTING HUMAN HEALTH: A CASE STUDY

2008-12-11

the present volume contains contributions of internationally renowned authors to the theme of interfacing between geostatistics geoinformation systems and spatial data base management systems although some progress has been made toward interfacing there is still only little overlap between the different communities the present volume is intended to provide a bridge between specialists working in these areas the volume first surveys new methodological developments in geostatistics and then reports on applications in traditional areas of geo and environmental sciences and novel application

Interfacing Geostatistics and GIS

2012-06-06

this book provides a cross section of cutting edge research areas being pursued by researchers in spatial data handling and geographic information science gis it presents selected papers on the advancement of spatial data handling and gis in digital cartography geospatial data integration geospatial database and data infrastructures geospatial data modeling gis for sustainable development the interoperability of heterogeneous spatial data systems location based services spatial knowledge discovery and data mining spatial decision support systems spatial data structures and algorithms spatial statistics spatial data quality and uncertainty the visualization of spatial data and web and wireless applications in gis

Advances in Spatial Data Handling and GIS

2001

lessons learned in the last several years have given clear indications that the prediction and efficient monitoring of disasters is one of the critical factors in decision making process in this respect space based technologies have the great potential of supplying information in near real time earth observation satellites have already demonstrated their flexibility in providing data to a wide range of applications weather forecasting person and vehicle tracking alerting to disaster forest fire and flood monitoring oil spills spread of desertification monitoring of crop and forestry damages this book focuses on a wider utilisation of remote sensing in disaster management the discussed aspects comprise data access delivery to the users

information extraction and analysis management of data and its integration with other data sources airborne and terrestrial imagery gis data etc data standardization organisational and legal aspects of sharing remote sensing information

Remote Sensing and GIS

2008-07-16

this book presents the state of the art of forest resources assessments and monitoring it provides links to practical applications of forest and natural resource assessment programs it offers an overview of current forest inventory systems and discusses forest mensuration sampling techniques remote sensing applications geographic and forest information systems and multi resource forest inventory attention is also given to the quantification of non wood goods and services

Remote Sensing and GIS Technologies for Monitoring and Prediction of Disasters

2006

remote sensing and gis is specifically designed to serve as a textbook for undergraduate students of geoinformatics geomatics engineering survey engineering civil engineering geotechnical engineering and environmental engineering it would also prove useful to students of geography geophysics earth resources management environmental management and disaster management it provides a thorough understanding of the basic principles and techniques of remote sensing geographic information systems and their applications

Basics of Remote Sensing and GIS

2006-10-19

with reference to india

Sampling Methods, Remote Sensing and GIS Multiresource Forest Inventory

1869

sponsored by united states department of agriculture forest service remote sensing applications center salt lake city utah and stephen f austin state university arthur temple college of forestry nacogdoches texas

Lehrbuch der Geigen- und Bogenmacherkunst

1898

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

Patents for Inventions. Abridgments of Specifications

2008

iss congress remote sensing

Remote Sensing and GIS

2001

with reference to india

Workshop, Remote Sensing and GIS Applications in Water Resources Engineering, 29-31 August 2001, Lucknow

2005

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2006

ACSM Bulletin

2007

Remote Sensing and GIS for Natural Resource Management

1995

GIS World

1998

Natural Resource Management Using Remote Sensing and GIS

2003

Remote Sensing for Environmental Monitoring, GIS Applications, and Geology

2006

Remote Sensing and Space Technology for Multidisciplinary Research and Applications

1986

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2001

ACM-GIS ...

2004

Oceans '04 MTS/IEEE

1996

GIS World Sourcebook

1996

Monitoring soils in the environment with remote sensing and gis

2004-03

GI News

1986

Fiber Optic Sensors

1994

Procedures and Specifications for the QMAP GIS

1999

Eleventh International Symposium on High-voltage Engineering: Topic G. Dielectric diagnostics, expert systems. Topic H. Industrial applications

2007

2 2 2 2 2 2 2 2 2 2 2 2

1994

The Digital Geo-ecological Map Concepts, Gis-methods, and Case Studies

2003

Biodiversity Characterisation at Landscape Level Using Satellite Remote Sensing and GIS

2000

Assessing the Feasibility of Using TRANSIMS in North Carolina

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