

Temporal Geographical Information Systems Advanced Functions For Fieldbased Applications

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**Geographical Information
and Climatology** Pierre

Carrega 2013-05-13 This book includes two parts. The first part is more theoretical and

general, and it covers fundamental principles: geospatial climate data measurement; spatial analysis, mapping and climate; geographical information, remote sensing and climatology; and geographical information for initialisation of forecasting and climate models. The second part describes geographical information used in various climate applications of importance today, related to risk: urban climate; air pollution; hydrological problems linked to climatology; forest fires.

Announcement 2003

Principles of Geographic Information Systems Rolf A. de By 2004

Temporal GIS George Christakos 2012-12-06 The book focuses on the development of advanced functions for field-based temporal geographical information systems (TGIS). These fields describe natural, epidemiological, economical, and social phenomena distributed across space and

time. The book is organized around four main themes: "Concepts, mathematical tools, computer programs, and applications". Chapters I and II review the conceptual framework of the modern TGIS and introduce the fundamental ideas of spatiotemporal modelling. Chapter III discusses issues of knowledge synthesis and integration. Chapter IV presents state-of-the-art mathematical tools of spatiotemporal mapping. Links between existing TGIS techniques and the modern Bayesian maximum entropy (BME) method offer significant improvements in the advanced TGIS functions. Comparisons are made between the proposed functions and various other techniques (e.g., Kriging, and Kalman-Bucy filters). Chapter V analyzes the interpretive features of the advanced TGIS functions, establishing correspondence between the natural system and the formal mathematics which describe it. In Chapters IV and V one can also find interesting extensions of TGIS

functions (e.g., non-Bayesian connectives and Fisher information measures). Chapters VI and VII familiarize the reader with the TGIS toolbox and the associated library of comprehensive computer programs. Chapter VIII discusses important applications of TGIS in the context of scientific hypothesis testing, explanation, and decision making.

Random Field Models in Earth Sciences George Christakos 2013-10-22 This book is about modeling as a principal component of scientific investigations. In general terms, modeling is the fundamental process of combining intellectual creativity with physical knowledge and mathematical techniques in order to learn the properties of the mechanisms underlying a physical phenomenon and make predictions. The book focuses on a specific class of models, namely, random field models and certain of their physical applications in the context of a stochastic data analysis and

processing research program. The term application is considered here in the sense wherein the mathematical random field model is shaping, but is also being shaped by, its objects. Key Features * This book explores the application of random field models and stochastic data processing to problems in hydrogeology, geostatistics, climate modeling, and oil reservoir engineering, among others Researchers in the geosciences who work with models of natural processes will find discussion of; * Spatiotemporal random fields * Space transformation * Multidimensional estimation * Simulation * Sampling design * Stochastic partial differential equations
Analele Universității București 2003
Dynamics in GIScience Igor Ivan 2017-08-23 This book is intended for researchers, practitioners and students who are interested in the current trends and want to make their GI applications and research dynamic. Time is the key element of contemporary GIS:

mobile and wearable electronics, sensor networks, UAVs and other mobile snoopers, the IoT and many other resources produce a massive amount of data every minute, which is naturally located in space as well as in time. Time series data is transformed into almost (from the human perspective) continuous data streams, which require changes to the concept of spatial data recording, storage and manipulation. This book collects the latest innovative research presented at the GIS Ostrava 2017 conference held in 2017 in Ostrava, Czech Republic, under the auspices of EuroSDR and EuroGEO. The accepted papers cover various aspects of dynamics in GIScience, including spatiotemporal data analysis and modelling; spatial mobility data and trajectories; real-time geodata and real-time applications; dynamics in land use, land cover and urban development; visualisation of dynamics; open spatiotemporal data; crowdsourcing for spatiotemporal data and big

spatiotemporal data.

Key Concepts and Techniques
in GIS Jochen Albrecht

2007-08-20 Key Concepts and Techniques in GIS is a concise overview of the fundamental ideas that inform geographic information science. It provides detailed descriptions of the concepts and techniques that anyone using GIS software must fully understand to analyse spatial data. Short and clearly focussed chapters provide explanations of: spatial relationships and spatial data the creation of digital data, the use and access of existing data, the combination of data the use of modelling techniques and the essential functions of map algebra spatial statistics and spatial analysis geocomputation - including discussion of neural networks, cellular automata, and agent-based modelling Illustrated throughout with explanatory figures, the text also includes a glossary, cross referenced to discussion in the text. Written very much from a user's perspective, Key Concepts and Techniques in GIS is highly

readable refresher course for intermediate level students and practitioners of GIS in the social and the natural sciences.

Emerging Intelligent Computing Technology and Applications. With Aspects of Artificial Intelligence

De-Shuang Huang 2009-09-19 The International Conference on Intelligent Computing (ICIC) was formed to provide an annual forum dedicated to the emerging and challenging topics in artificial intelligence, machine learning, bioinformatics, and computational biology, etc. It aims to bring together researchers and practitioners from both academia and industry to share ideas, problems, and solutions related to the multifaceted aspects of intelligent computing. ICIC 2009, held in Ulsan, Korea, September 16-19, 2009, constituted the 5th International Conference on Intelligent Computing. It built upon the success of ICIC 2008, ICIC 2007, ICIC 2006, and ICIC 2005 held in Shanghai, Qingdao, Kunming, and Hefei,

China, 2008, 2007, 2006, and 2005, respectively. This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was "Emerging Intelligent Computing Technology and Applications." Papers focusing on this theme were solicited, addressing theories, methodologies, and applications in science and technology.

Encyclopedia of Geographic Information Science Karen Kemp 2008 Geographic information science (GIScience) is an emerging field that combines aspects of many different disciplines. Spatial literacy is rapidly becoming recognized as a new, essential pier of basic

education, alongside grammatical, logical and mathematical literacy. By incorporating location as an essential but often overlooked characteristic of what we seek to understand in the natural and built environment, geographic information science (GIScience) and systems (GISystems) provide the conceptual foundation and tools to explore this new frontier. The Encyclopedia of Geographic Information Science covers the essence of this exciting, new, and expanding field in an easily understood but richly detailed style. In addition to contributions from some of the best recognized scholars in GIScience, this volume contains contributions from experts in GIS' supporting disciplines who explore how their disciplinary perspectives are expanded within the context of GIScience—what changes when consideration of location is added, what complexities in analytical procedures are added when we consider objects in 2, 3 or even

4 dimensions, what can we gain by visualizing our analytical results on a map or 3D display? Key Features Brings together GIScience literature that is spread widely across the academic spectrum Offers details about the key foundations of GIScience, no matter what their disciplinary origins Elucidates vocabulary that is an amalgam of all of these fields Key Themes Conceptual Foundations Cartography and Visualization Design Aspects Data Manipulation Data Modeling Geocomputation Geospatial Data Societal Issues Spatial Analysis Organizational and Institutional Aspects The Encyclopedia of Geographic Information Science is an important resource for academic and corporate libraries. Encyclopedia of GIS Shashi Shekhar 2007-12-12 The Encyclopedia of GIS provides a comprehensive and authoritative guide, contributed by experts and peer-reviewed for accuracy, and alphabetically arranged for

convenient access. The entries explain key software and processes used by geographers and computational scientists. Major overviews are provided for nearly 200 topics: Geoinformatics, Spatial Cognition, and Location-Based Services and more. Shorter entries define specific terms and concepts. The reference will be published as a print volume with abundant black and white art, and simultaneously as an XML online reference with hyperlinked citations, cross-references, four-color art, links to web-based maps, and other interactive features.

Cornell University Courses of Study Cornell University 2006

Geographic Information Systems for Transportation Harvey J. Miller 2001 GIS data and tools are revolutionizing transportation research and decision making, allowing transportation analysts and professionals to understand and solve complex transportation problems that were previously impossible.

Here, Miller and Shaw present a comprehensive discussion of fundamental geographic science and the applications of these principles using GIS and other software tools. By providing thorough and accessible discussions of transportation analysis within a GIS environment, this volume fills a critical niche in GIS-T and GIS literature.

Machine Learning: Concepts, Methodologies, Tools and Applications Management Association, Information Resources 2011-07-31 "This reference offers a wide-ranging selection of key research in a complex field of study, discussing topics ranging from using machine learning to improve the effectiveness of agents and multi-agent systems to developing machine learning software for high frequency trading in financial markets"-- Provided by publishe

Spatial Interpolation for Climate Data Hartwig Dobsch 2013-03-01 This title gives an authoritative look at the use of Geographical Information Systems (GIS) in

climatology and meteorology.

GIS provides a range of strategies, from traditional methods, such as those for hydromet database analysis and management, to new developing methods. As such, this book will provide a useful reference tool in this important aspect of climatology and meteorology study.

Axmedis 2008 Paolo Nesi 2008

The present book covers topics both on fluvial and lagoon morphodynamics. The first part is dedicated to tidal environments. Topics include an overview of main morphological features and mechanisms of estuaries and tidal channels and a model devoted to investigate flow field pattern and bed topography in tidal meandering channels and a comparison with recent observational evidence of meanders within different tidal environments. The general failure of Bagnold hypothesis when applied to equilibrium bedload transport at even relatively modest transverse slope is demonstrated. A new model is

then proposed based on an empirical entrainment formulation of bed grains.

Agricultural Internet of Things and Decision Support for Precision Smart Farming

Annamaria

Castrignano 2020-01-09

Agricultural Internet of Things and Decision Support for Smart Farming reveals how a set of key enabling technologies (KET) related to agronomic management, remote and proximal sensing, data mining, decision-making and automation can be efficiently integrated in one system. Chapters cover how KETs enable real-time monitoring of soil conditions, determine real-time, site-specific requirements of crop systems, help develop a decision support system (DSS) aimed at maximizing the efficient use of resources, and provide planning for agronomic inputs differentiated in time and space. This book is ideal for researchers, academics, post-graduate students and practitioners who want to embrace new agricultural technologies. Presents the

science behind smart technologies for agricultural management Reveals the power of data science and how to extract meaningful insights from big data on what is most suitable based on individual time and space Proves how advanced technologies used in agriculture practices can become site-specific, locally adaptive, operationally feasible and economically affordable

Handbook on Geographic Information Systems and Digital Mapping United Nations. Statistical Division 2000 The rapid recent developments in digital mapping technology and the increasing demand for geo-referenced small area population data have been the main motivation for the present handbook. The Handbook provides guidance on how to ensure consistency and facilitate census operations; support data collection and help monitor census activities during enumeration; and facilitate presentation, analysis and dissemination of census results. Along with an overview

of geographic information systems and digital mapping, the publication discusses cost-benefit analysis of an investment in digital cartography and geographical information systems (GIS); the use of GIS during census enumeration; and describes the role of GIS and digital mapping in the post-censal phase [from UN website].

Environmental Software Systems. Fostering Information Sharing Jiří

Hřebíček 2013-09-08 This book constitutes the refereed proceedings of the 10th IFIP WG 5.11 International Symposium on Environmental Software Systems, ISESS 2013, held in Neusiedl am See, Austria, in June 2013. The 65 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in the following topical sections: environmental application in the scope of the future Internet; smart and mobile devices used for environmental applications; information tools for global

environmental assessment;
environmental applications in
risk and crises management;
SEIS as a part of the 7th
environment action programme
of EU; human interaction and
human factors driving future
EIS/EDSS developments;
environmental management/
accounting and -statistics; and
information systems and
applications.

Aplicación de sistemas de
información geográfica al
estudio de acuíferos costeros
complejos. Caso del campo de
Dalías. Dolorinda Daniele
2009-06-17 Los recursos
hídricos representan un
recurso estratégico muy
importante a escala mundial;
extensas áreas tienen
tradicionalmente escasez de
agua y, frente a ésta, las aguas
subterráneas representan, en
numerosas ocasiones, la
solución al problema. El
constante aumento de la
demanda de agua pone estos
recursos bajo un continuo
estrés que, en algunos casos,
lleva a la degradación de la
calidad y cantidad de las
aguas. El área de estudio

representa una situación muy
especial e internacionalmente
conocida. En el Campo de
Dalías se cultivan alrededor de
22.000 ha bajo plástico y
debido a la paulatina mejora en
las técnicas de cultivo y a las
favorables condiciones
climáticas es posible cultivar
casi todo el año. El agua, en
esta área semiárida, representa
el fundamento y, a la vez, la
limitación del desarrollo
socioeconómico. Más del 80%
del agua que se usa es de
origen subterráneo y desde
hace años los acuíferos
presentan indicios de
sobreexplotación. El Campo de
Dalías es una llanura litoral del
SE español con una superficie
que se aproxima a los 330 km².
La llanura es interrumpida por
la aparición de algunos
escarpes y algunas formas
cerradas, entre las cuales
destaca la del entorno de Las
Norias. Numerosas ramblas
procedentes de la vertiente
meridional de Sierra de Gádor
recurren el Campo y,
generalmente, no llegan al
mar; sus aguas sólo discurren
por ellas en ocasiones de altas

precipitaciones (Pulido-Bosch et al., 1988). Éstas no superan los 300 mm/a e incluso a veces ni los 200 mm/a, debido a la variabilidad interanual e incluso mensual del régimen de lluvias. Los materiales acuíferos presentes son los carbonatos de los dos mantos alpujárrides, Gádor y Felix, las calcarenitas miocenas y pliocenas y algunos materiales cuaternarios de escaso espesor. Tradicionalmente, en el Campo de Dalías, se han distinguido tres unidades hidrogeológicas diferentemente denominadas según los distintos autores (Domínguez et al., 1986; Pulido Bosch et al., 1989; Molina, 1998; Pulido Bosch et al., 2000; Molina et al., 2001). Yo he adoptado la subdivisión por unidades hidrogeológicas propuesta por el G.I. Recursos Hídricos y Geología Ambiental que distingue tres unidades principales: Aguadulce, Balerma-Las Marinas y Balanegra. La geometría de estas unidades así como sus relaciones son complejas y, en parte desconocidas. En

régimen natural la principal fuente de alimentación es la Sierra de Gádor. Sin embargo, el balance hídrico es negativo como consecuencia de los intensos bombeos que continúan desde hace décadas. Este trabajo de tesis se ha realizado con el objetivo de conocer las características hidroquímicas y los procesos fisicoquímicos que actúan en los sistemas acuíferos del Campo de Dalías y los eventuales cambios que se han producido a lo largo del tiempo. Para lograr el objetivo propuesto he diseñado e implementado una base de datos geográfica (geodatabase) para disponer de una herramienta que permita la gestión eficiente de toda la información disponible. Esta geodatabase y el ambiente SIG representan el punto central de mi trabajo alrededor del cual he desarrollado todo los tratamientos recopilados en esta memoria. Ésta está dividida en dos grandes partes; la primera dedicada a la implementación de la geodatabase y la segunda al

tratamiento e interpretación de los datos hidrogeoquímicos y piezométricos. En los primeros capítulos he descrito el área de estudio y sus características principales. En el tercer capítulo he descrito todos los pasos y las fases de la creación de la geodatabase. En el cuarto capítulo se encuentra el análisis de las características hidrológicas orientado a definir algunas propiedades del la vertiente Sur de Sierra de Gádor-Campo de Dalías. Finalmente en los últimos capítulos se encuentran los tratamientos que he llevado a cabo para el análisis y la interpretación de las muestras recogidas durante los muestreos de 2001-2002. Los tratamientos realizados son: Dendrogramas, diagramas de cajas, análisis factorial, análisis de componentes principales (ACP), estudio variográfico y krigage ordinario. He analizado e interpretado todos los datos, en función de las tres unidades hidrogeológicas usando los iones mayoritarios, algunos minoritarios y elementos traza para

establecer los principales fenómenos fisicoquímicos que afectan a las aguas estudiadas. Los resultados han sido resumidos en un gran número de mapas realizados en entorno SIG que permiten identificar sobre el territorio las áreas afectadas y los procesos presentes en el área de estudio. He detectado una situación de estrés hídrico relacionado con la sobreexplotación y con el empobrecimiento de la calidad de las aguas estudiadas. Los procesos fisicoquímicos encontrados son múltiples; intrusión marina, lavado de materiales y evaporitas, movilización de salmueras, cambios hidroquímicos debidos a interconexión entre diferentes capas acuíferas y procesos hidrotermales. En el Campo existen sectores donde algunos de los procesos mencionados se dan a la vez, superponiéndose y dificultando su diferenciación. En el caso de Aguadulce, la presencia de diferentes niveles complica la interpretación de los datos ya que la geometría de éstos no es

bien conocida. Sin embargo, se puede afirmar que la situación, en la fecha del estudio, es un paulatino abandono de las capas más superficiales y un intenso aprovechamiento del acuífero más profundo. Éste, por lo general, goza de aguas de buena calidad, pero ya hay evidencias de cambios en la calidad y de descensos en los niveles piezométricos, sobre todo en el entorno de Aguadulce, la zona de la costa y en los alrededores del Cosario. En la parte central del Campo, los bombeos de la unidad de Balerna-Las Marinas han sido abandonados paulatinamente debido a la mala calidad de las aguas. No obstante, la calidad no ha mejorado y se han medido valores elevados de nitratos. Sólo en casos puntuales he encontrado mejoría en la salinidad que puede relacionarse con la disminución de bombeos o una profundización de sondeos. La parte central de este acuífero es la que parece más afectada por el empeoramiento en la calidad aunque se registran

subidas importantes en los niveles piezométricos. En el extremo occidental las aguas son aprovechadas intensamente, la salinidad está aumentando y muy probablemente en la zona costera hay intrusión marina. De hecho, con el tiempo las captaciones han sido desplazadas hacia la sierra. En toda la unidad los niveles piezométricos medidos son negativos y, en ocasiones superan -30 m s.n.m.

Groundwater Recharge in a Desert Environment 2004
Selected Readings on Telecommunications and Networking Gutierrez, Jairo 2008-08-31 "This book presents quality articles focused on key issues concerning the planning, design, maintenance, and management of telecommunications and networking technologies"-- Provided by publisher.

Advanced Air Pollution
Farhad Nejadkoorki 2011-08-17 Leading air quality professionals describe different aspects of air pollution. The book presents information on

four broad areas of interest in the air pollution field; the air pollution monitoring; air quality modeling; the GIS techniques to manage air quality; the new approaches to manage air quality. This book fulfills the need on the latest concepts of air pollution science and provides comprehensive information on all relevant components relating to air pollution issues in urban areas and industries. The book is suitable for a variety of scientists who wish to follow application of the theory in practice in air pollution. Known for its broad case studies, the book emphasizes an insightful of the connection between sources and control of air pollution, rather than being a simple manual on the subject.

Cartography and Geographic Information Science 2005

WebGIS for Disaster Management and Emergency Response Rifaat Abdalla

2018-12-06 This book aims to help students, researchers and policy makers understand the latest research and

development trends in the application of WebGIS for Disaster Management and Emergency Response. It is designed as a useful tool to better assess the mechanisms for planning, response and mitigation of the impact of disaster scenarios at the local, regional or national levels. It contains details on how to use WebGIS to solve real-world problems associated with Disaster Management Scenarios for the long-term sustainability. The book broadens the reader understanding of the policy and decision-making issues related to Disaster Management response and planning.

Handbook of Research on Geoinformatics Karimi,

Hassan A. 2009-01-31 "This book discusses the complete range of contemporary research topics such as computer modeling, geometry, geoprocessing, and geographic information systems"--Provided by publisher.

GIS in Hydrologie und Wasserwirtschaft Josef Fürst
2004

Modelling Environmental

Dynamics Martin Paegelow
2008-07-16 Modelling environmental dynamics is critical to understanding and predicting the evolution of the environment in response to the large number of influences including urbanisation, climate change and deforestation. Simulation and modelling provide support for decision making in environmental management. The first chapter introduces terminology and provides an overview of methodological modelling approaches which may be applied to environmental and complex dynamics. Based on this introduction this book illustrates various models applied to a large variety of themes: deforestation in tropical regions, fire risk, natural reforestation in European mountains, agriculture, biodiversity, urbanism, climate change and land management for decision support, etc. These case studies, provided by a large international spectrum of researchers and presented in a

uniform structure, focus particularly on methods and model validation so that this book is not only aimed at researchers and graduates but also at professionals.

GIS and Multicriteria Decision

Analysis Jacek Malczewski
1999-04-05 From selecting sites for new hospitals, schools, and factories, to managing forests and rivers, to creating and maintaining highways and bridges, public and private organizations are often called on to make decisions on geographic questions that involve a multitude of alternatives and often conflicting evaluation criteria. This book presents a formal mechanism for dealing with these situations, capturing the information in a Geographic Information System and processing it to derive optimal recommendations for confronting these complex questions.

Traffic-related Air Pollution

Health Effects Institute. Panel on the Health Effects of Traffic-Related Air Pollution 2010

Comprehensive Geographic

Information Systems

2017-07-21 Geographical Information Systems, Three Volume Set is a computer system used to capture, store, analyze and display information related to positions on the Earth's surface. It has the ability to show multiple types of information on multiple geographical locations in a single map, enabling users to assess patterns and relationships between different information points, a crucial component for multiple aspects of modern life and industry. This 3-volumes reference provides an up-to date account of this growing discipline through in-depth reviews authored by leading experts in the field. VOLUME EDITORS Thomas J. Cova The University of Utah, Salt Lake City, UT, United States Ming-Hsiang Tsou San Diego State University, San Diego, CA, United States Georg Bareth University of Cologne, Cologne, Germany Chunqiao Song University of California, Los Angeles, CA, United States Yan Song University of North

Carolina at Chapel Hill, Chapel Hill, NC, United States Kai Cao National University of Singapore, Singapore Elisabete A. Silva University of Cambridge, Cambridge, United Kingdom Covers a rapidly expanding discipline, providing readers with a detailed overview of all aspects of geographic information systems, principles and applications Emphasizes the practical, socioeconomic applications of GIS Provides readers with a reliable, one-stop comprehensive guide, saving them time in searching for the information they need from different sources

Reasoning Web. Semantic Technologies for Intelligent

Data Access Sebastian Rudolph 2013-07-22 This volume contains the lecture notes of the 9th Reasoning Web Summer School 2013, held in Mannheim, Germany, in July/August 2013. The 2013 summer school program covered diverse aspects of Web reasoning, ranging from scalable lightweight formalisms such as RDF to more

expressive ontology languages based on description logics. It also featured foundational reasoning techniques used in answer set programming and ontology-based data access as well as emerging topics like geo-spatial information handling and reasoning-driven information extraction and integration.

Spatial Analysis of Coastal Environments

Sarah M. Hamylton 2017-04-13 This book covers the spatial analytical tools needed to map, monitor and explain or predict coastal features, with accompanying online exercises. [Stanford Bulletin](#) 2001

Proceedings of the International Conference on Transportation Systems Planning and Operation

Venkatachalam Thamizh Arasan 2004

Geomatics Solutions for Disaster Management

Jonathan Li 2007-07-28 Effective utilization of satellite positioning, remote sensing, and GIS in disaster monitoring and management requires research and development in

numerous areas, including data collection, information extraction and analysis, data standardization, organizational and legal aspects of sharing of remote sensing information. This book provides a solid overview of what is being developed in the risk prevention and disaster management sector.

Remote Sensing and Geospatial Technologies for Coastal

Ecosystem Assessment and Management

Xiaojun Yang 2008-12-11 In this landmark publication, leading experts detail how remote sensing and related geospatial technologies can be used for coastal ecosystem assessment and management. This book is divided into three major parts. In the first part several conceptual and technical issues of applying remote sensing and geospatial technologies in the coastal environment are examined. The second part showcases some of the latest developments in the use of remote sensing and geospatial technologies when characterizing coastal waters,

submerged aquatic vegetation, benthic habitats, shorelines, coastal wetlands and watersheds. Finally, the last part demonstrates a watershed-wide synthetic approach that links upstream stressors with downstream responses for integrated coastal ecosystem assessment and management.

Connections, Mobilities, Urban Prospects and Environmental

Threats Louis F. Cassar

2015-09-10 This volume provides specialized insights into selected Mediterranean geographies, such as information technologies, tourism, urbanization and climate change threats, with a focus on emerging and often overlooked issues, in light of the impact of current trends of globalization and the financial 'crisis', in the broader context of contemporary world processes of environmental change and accelerated human mobility. Specifically, the book contains sections on emergent and increasingly significant or highly innovative issues specific to the Mediterranean,

often providing alternative perspectives on various pressing issues, such as the northward shift of climatic types; littoralisation processes and urbanization trends; tourism growth problems; human exposure to environmental stresses; and the boom in information communication technologies.

As such this book provides new insights into a region that has absorbed the sustained impact of human growth in precarious environments, often at the interface of many worlds, co-existing at various states of development and inter-scalar or cross-border interrelationships. This volume does not cover every aspect of the human and physical geographies of the Mediterranean region, but rather addresses contemporary issues of increasing significance to the Mediterranean, with an emphasis on emergent and pressing issues, as well as new perspectives or methods of approach, of special relevance to the Mediterranean. The core

of contributions to this volume originated from an initiative undertaken by the International Geographical Union (IGU) Mediterranean Renaissance Program, now the Commission on the Mediterranean Basin (COMB). Most papers are authored by members of the latter Commission and additional papers are included, in order to cover more aspects of contemporary Mediterranean geographies.

Space-Time Integration in Geography and GIScience Mei-Po Kwan 2014-09-18 Space-time analysis is a rapidly growing research frontier in geography, GIS, and GIScience. Advances in integrated GPS/GIS technologies, the availability of large datasets (over time and space), and increased capacity to manage, integrate, model and visualize complex data in (near) real time, offer the GIS and geography communities extraordinary opportunities to begin to integrate sophisticated space-time analysis and models in the

study of complex environmental and social systems, from climate change to infectious disease transmission. This volume specifically focuses on research frontiers, comparative research, and research and application interactions in this field in the US and China, arguably the two most dynamic loci for this work today. The contributions to this book, by top researchers in China and the US, productively highlight the differences and similarities in approaches and directions for space-time analysis in the two countries. In light of the recent rapid progress in GIScience research on space-time integration in both countries, the book's focus on research frontiers in these two countries will attract great interest in both countries and in other parts of the world as well as among related disciplines. In addition, the book also explores the impact of collaborative research and publications underway in this area between the US and China and will provide an overview of

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these collaborative efforts and programs. This book will not only be of interest to university-based GIS researchers and students, but also to those interested in this new area of research and applications like researchers and developers in business, internet mapping and GIS and location based services (LBS).

Geographic Information Systems in Business James B. Pick

2005-01-01 This book contains state-of-the-art research studies on the concepts, theory, processes, and real world applications of geographical information systems (GIS) in business. Its chapters are authored by many of the leading experts in applying GIS and geospatial science to business. The book utilizes a wide variety of approaches and methodologies including conceptual theory development, research frameworks, quantitative and qualitative methods, case studies, systems design, DSS theory, and geospatial analysis combined with point-of-sale. Since relatively little research

has been published on GIS in business, this book is pioneering and should be the principal compendium of the latest research in this area. The book impacts not only the underlying definitions, concepts, and theories of GIS in business and industry, but its practice as well.

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eBook that aligns with your interests and needs is crucial. This article delves into the art of finding the perfect eBook and explores the platforms and strategies to ensure an enriching reading experience.

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