
Geospatial Semantics And The Semantic Web Book Abstract: The availability of geographic and geospatial information and services, especially on the open Web has become abundant in the last several years with the proliferation of online maps, geo-coding services, geospatial Web services and geospatially enabled applications. The need for geospatial reasoning has significantly increased in many everyday applications including personal digital assistants, Web search applications, local aware mobile services, specialized systems for emergency response, medical triaging, intelligence analysis and more. Geospatial Semantics and the Semantic Web: Foundations, Algorithms, and Applications, an edited volume contributed by world class leaders in this field, provides recent research in the theme of geospatial semantics. This edited volume presents new information systems applications that have potential for high impact and commercialization. Also, special effort was made by the contributors to focus on geospatial ontology development, related standards, geospatial ontology alignment and integration, and algorithmic techniques for geospatial semantics. Case studies and examples will be provided throughout this book as well as possibilities for future research.

Related Book of Geospatial Semantics And The Semantic Web

Geospatial Semantics
The LNCS series reports state-of-the-art results in computer science research, development, and education, at a high level and in both printed and electronic form. Enjoying tight cooperation with the R & D community, with numerous individuals, as well as with prestigious organizations and societies, LNCS has grown into the most comprehensive comput[...]

Geospatial Semantic Web
This book covers key issues related to Geospatial Semantic Web, including geospatial web services for spatial data interoperability; geospatial ontology for semantic interoperability; ontology creation, sharing, and integration; querying knowledge and information from heterogeneous data source; interfaces for Geospatial Semantic Web, VGI (Volunteer[...]

Semantic Web Based Intelligent Geospatial Web Services
By introducing Semantic Web technologies into geospatial Web services, this book addresses the semantic description of geospatial data and standards-based Web services, discovery of geospatial data and services, and generation of composite services. Semantic descriptions for geospatial data, services, and geoprocessing service
chains are structured[...]

**Introduction To The Semantic Web And Semantic Web Services**

Even though the semantic Web is a relatively new and dynamic area of research, a whole suite of components, standards, and tools have already been developed around it. Using a concrete approach, Introduction to the Semantic Web and Semantic Web Services builds a firm foundation in the concept of the semantic Web, its principal technologies, its rea[...]

**The Geospatial Web**

The Geospatial Web will have a profound impact on managing knowledge & structuring workflows within and across organizations, & on the interaction between those organizations & their target audience. This volume emphasizes the applications & implications of the Geospatial Web & the role of contextual knowledge in shaping the emerging network soci[...]

**Interacting With Geospatial Technologies**

This book provides an introduction to HCI and usability aspects of Geographical Information Systems and Science. Its aim is to introduce the principles of Human-Computer Interaction (HCI); to discuss the special usability aspects of GIS which designers and developers need to take into account when developing such systems; and to offer a set of trie[...]

**It Roadmap To A Geospatial Future**

A grand challenge for science is to understand the human implications of global environmental change and to help society cope with those changes. Virtually all the scientific questions associated with this challenge depend on geospatial information (geoinformation) and on the ability of scientists, working individually and in groups, to interact wi[...]

**Introduction To Geospatial Technologies**

Combining both theoretical coverage and hands-on lab work, and accessible to majors and non-majors alike, Bradley Shellito's Introduction to Geospatial Technologies has become a new favorite for the digital Earth course. The new edition reflects the latest developments in the field, including how scientists are using GIS data with cloud technology.[...]

**Next Generation Geospatial Information**

With the turn of the century our ability to collect and store geospatial information has increased considerably. This has resulted in ever-increasing amounts of heterogeneous geospatial data, an issue that poses new challenges and opportunities. As these rich sources of data are made available, users rely, now more than ever, on the geospatial data[...]

**Coastal And Marine Geospatial Technologies**

In 2005 the CoastGIS symposium and exhibition was once again held in Aberdeen, Scotland, in the UK, the second time that we have had the privilege host this international event in the city of Aberdeen. This was the 6th International S-posium Computer Mapping and GIS for Coastal Zone Management, a collabo- tion between the International Cartograph[...]

**Manual Of Geospatial Science And Technology**

Professionals in local and national government and in the private sector frequently need to draw on Geographical Information Systems (GIS), Remote Sensing (RS) and Global Positioning Systems (GPS), often in an integrated manner. This manual shows a hands-on operator how to work across the range of geospatial science and technology, whether as a use[...]
Geospatial Technology For Earth Observation
Earth Observation interacts with space, remote sensing, communication, and information technologies, and plays an increasingly significant role in Earth related scientific studies, resource management, homeland security, topographic mapping, and development of a healthy, sustainable environment and community. Geospatial Technology for Earth Observ[...]

Geospatial Services And Applications For The Internet
The use of geospatial technologies has become ubiquitous since the leading Internet vendors delivered a number of popular map websites. This book covers a wide spectrum of techniques, model methodologies and theories on development and applications of GIS relative to the internet. It includes coverage of business process services, and integration o[...]

A Geospatial Framework For The Coastal Zone
The coastal zone is of enormous importance to the well-being of the nation, as our lives and economy are inextricably linked to the features and activities that occur within this dynamic region. In order to understand and address the effects of natural and anthropogenic forces in the coastal zone, a holistic multidisciplinary framework is required [...] [snip]

Geospatial Technologies And Homeland Security
Homeland security and context In the Geographical Dimensions of Terrorism (GDOT) (Cutter et al. 2003), the first book after 9/11 to address homeland security and geography, we developed several thematic research agendas and explored intersections between geographic research and the importance of context, both geographical and political, in relation[...]

Geospatial Technologies In Environmental Management
The book explores new approaches and applications of geospatial technologies to understand past, present and future impacts environmental policies and management practices have on the landscape. From forestry to water use, and from wildlife management to agricultural practices, this collection of case studies examines the application of geospatial [...] [snip]

Learning Geospatial Analysis With Python
This is a tutorial-style book that helps you to perform Geospatial and GIS analysis with Python and its tools/libraries. This book will first introduce various Python-related tools/packages in the initial chapters before moving towards practical usage, examples, and implementation in specialized kinds of Geospatial data analysis. This book is for an[...]

Python Geospatial Development Second Edition
This is a tutorial style book that will teach usage of Python tools for GIS using simple practical examples and then show you how to build a complete mapping application from scratch. The book assumes basic knowledge of Python. No knowledge of Open Source GIS is required. Experienced Python developers who want to learn about geospatial concepts, wor[...]

Geospatial Tools For Urban Water Resources
This book examines the application of geotechniques to address a wide range of issues facing urban water resources. Growing populations leading to urbanization and related development have lead to problems associated with water quality, storm water management, flood control, environmental health, and related ecosystem impacts. Major cities and othe[...]

Geospatial Technology And The Role Of Location In Science
Globalisation has not led to the 'death of geography'. Intensified relations between communities in different parts of the world have only highlighted the need for understanding and managing phenomena on a variety of geographic scales. From global warming to credit crunch, and from epidemics to terrorism, causes and solutions are sought on local, [...]

Geospatial Techniques For Managing Environmental Resources
"Geospatial Information" is spatial data concerning a place or, in space, collected in real time. Geospatial techniques together with remote sensing, geographic information science, Global Positioning System (GPS), cartography, geovisualization, and spatial statistics are being used to capture, store, manipulate and analyze to understand complex si[...]

Tile Based Geospatial Information Systems
Tile-based mapping systems have grown to become the dominant form of mapping system with the rise of Web-based mapping tools. The origin of this book is a desire to collect all our discoveries, techniques, and best practices for creating a til- mapping system into one combined volume. The intent of this text is to provide a comprehensive guide to t[...]

Geospatial Web Services Advances In Information Interoperability
As Web service technologies have matured in recent years, an increasing number of geospatial Web services designed to deal with spatial information over the network have emerged. Geospatial Web Services: Advances in Information Interoperability provides relevant theoretical frameworks and the latest empirical research findings and applications in t[...]

Geodesign By Integrating Design And Geospatial Sciences
In Europe, the emerging discipline of geodesign was earmarked by the first Geodesign Summit held in 2013 at the GeoFort, the Netherlands. Here researchers and practitioners from 28 different countries gathered to exchange ideas on how to merge the spatial sciences and design worlds. This book brings together experiences from this international grou[...]

Geospatial Information Technology For Emergency Response
Disaster management is generally understood to consist of four phases: mitigation, preparedness, response and recovery. While these phases are all important and interrelated, response and recovery are often considered to be the most critical in terms of saving lives. Response is the acute phase occurring after the event, and includes all arrangement[...]

Following in the tradition of its popular predecessor, the Manual of Geospatial Science and Technology, Second Edition continues to be the authoritative volume that covers all aspects of the field, both basic and applied, and includes a focus on initiating, planning, and managing GIS projects. This comprehensive resource, which contains contributio[...]

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