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Fatimazahra Barramou · El Hassan El Birchi ·
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Geospatial Intelligence

Applications and Future Trends



Geospatial Intelligence Springer

Daniela Niemeyer



Geospatial Intelligence Springer:

Geospatial Intelligence Fatimazahra Barramou, El Hassan El Brirchi, Khalifa Mansouri, Youness Dehbi, 2021-11-10 This book explores cutting edge methods combining geospatial technologies and artificial intelligence related to several fields such as smart farming urban planning geology transportation and 3D city models It introduces techniques which range from machine and deep learning to remote sensing for geospatial data analysis The book consists of two main parts that include 13 chapters contributed by promising authors The first part deals with the use of artificial intelligence techniques to improve spatial data analysis whereas the second part focuses on the use of artificial intelligence with remote sensing in various fields Throughout the chapters the interest for the use of artificial intelligence is demonstrated for different geospatial technologies such as aerial imagery drones Lidar satellite remote sensing and more The work in this book is dedicated to the scientific community interested in the coupling of geospatial technologies and artificial intelligence and exploring the synergetic effects of both fields It offers practitioners and researchers from academia the industry and government information experiences and research results about all aspects of specialized and interdisciplinary fields on geospatial intelligence

Geospatial Intelligence: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-03-01 Decision makers such as government officials need to better understand human activity in order to make informed decisions With the ability to measure and explore geographic space through the use of geospatial intelligence data sources including imagery and mapping data they are better able to measure factors affecting the human population As a broad field of study geospatial research has applications in a variety of fields including military science environmental science civil engineering and space exploration *Geospatial Intelligence Concepts Methodologies Tools and Applications* explores multidisciplinary applications of geographic information systems to describe assess and visually depict physical features and to gather data information and knowledge regarding human activity Highlighting a range of topics such as geovisualization spatial analysis and landscape mapping this multi volume book is ideally designed for data scientists engineers government agencies researchers and graduate level students in GIS programs *Spatial Intelligence for a Greener Planet* Kuldeep Chaurasia, Pradeep Kumar Garg, Arun P V, Yingewi Yan, 2024-12-26 With rapid advancements in AI this book reveals how AI can be a powerful tool in reducing pollution and fostering sustainability It highlights the integration of geospatial techniques with AI for enhancing capabilities in mapping analysis and mitigation of environmental pollution Starting with foundational concepts in AI geospatial technology and pollution the book addresses air water soil and thermal pollution emphasizing their harmful impacts Through real world case studies and advanced research it showcases AI and geospatial technology s revolutionary role in pollution mitigation exploring AI driven sensors satellite imagery and associated networks for precise and efficient pollution monitoring and management *Future U.S. Workforce for Geospatial Intelligence* National Research Council, Policy and Global Affairs, Board on Higher Education and Workforce, Division on Earth

and Life Studies, Board on Earth Sciences and Resources, Committee on the Future U.S. Workforce for Geospatial Intelligence, 2013-04-28 We live in a changing world with multiple and evolving threats to national security including terrorism asymmetrical warfare conflicts between agents with different military powers or tactics and social unrest Visually depicting and assessing these threats using imagery and other geographically referenced information is the mission of the National Geospatial Intelligence Agency NGA As the nature of the threat evolves so do the tools knowledge and skills needed to respond The challenge for NGA is to maintain a workforce that can deal with evolving threats to national security ongoing scientific and technological advances and changing skills and expectations of workers Future U S Workforce for Geospatial Intelligence assesses the supply of expertise in 10 geospatial intelligence GEOINT fields including 5 traditional areas geodesy and geophysics photogrammetry remote sensing cartographic science and geographic information systems and geospatial analysis and 5 emerging areas that could improve geospatial intelligence GEOINT fusion crowdsourcing human geography visual analytics and forecasting The report also identifies gaps in expertise relative to NGA s needs and suggests ways to ensure an adequate supply of geospatial intelligence expertise over the next 20 years Proceedings of the ... International IEEE Conference on Tools for Artificial Intelligence ,2005 **1997 IEEE International Conference on Tools with Artificial Intelligence** ,1997 Aimed at researchers professors practitioners students and other computing professionals this work focuses in genetic algorithms reasoning under uncertainty natural language processing knowledge based technology and neural networks **Geographical Information Systems** Paul Longley,1999 From a review of the First Edition The book is timely packed with useful background information and thought provoking in its treatment of future prospects the definitive guide to GIS Photogrammetric Engineering Remote Sensing The one stop source for current and comprehensive information on GIS now in a new edition The long awaited Second Edition of Geographical Information Systems brings this definitive reference up to date with the latest developments in GIS techniques and practice Completely restructured and rewritten by a select international team of almost 100 GIS experts it remains the resource of choice for anyone seeking detailed state of the art information on all key aspects of this revolutionary spatial science technology from underlying principles and methodology Volume 1 to management and practical applications Volume 2 Unmatched in scope by any other reference on the subject Geographical Information Systems Second Edition provides crucial background on basic GIS concepts and addresses the radical shifts and changes that have taken place in GIS technology and its uses The new edition comes complete with color illustrations helpful cross referencing plus an extensive bibliography a list of acronyms and more a full range of features that make this landmark resource easier to use than ever Volume 1 offers in depth coverage of key GIS principles and technical issues including Spatial representation spatial distributions and spatial data Data quality error detection and spatial analysis New GIS technology from networked and open GIS to desktop environments Current spatial database management methods Data capture using the latest remote sensing and global positioning system GPS technologies

Techniques for transforming and linking geographical data

Luigia Carlucci Aiello, Jon Doyle, Stuart Charles Shapiro, 1996

Principles of Knowledge Representation and Reasoning

Geo-intelligence for Sustainable Development T. P.

Singh, Dharmaveer Singh, R. B. Singh, 2021-09-14 Globally concerns for the environment and human well being have increased as results of threats imposed by climate change and disasters environmental degradation pollution of natural resources water scarcity and proliferation of slums Finding appropriate solutions to these threats and challenges is not simple as these are generally complex and require state of the art technology to collect measure handle and analyse large volumes of varying data sets However the recent advances in sensor technology coupled with the rapid development of computational power have greatly enhanced our abilities to capture store and analyse the surrounding physical environment This book explores diverse dimensions of geo intelligence GI technology in developing a computing framework for location based data integrating earth observation and predictive modelling to address these issues at all levels and scales The book provides insight into the applications of GI technology in several fields of spatial and social sciences and attempts to bridge the gap between them

Geo-information and Computational Geometry Petrus Johannes Maria van Oosterom, Marc van Kreveld, 2006

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Semantic Interoperability of Distributed Geo-services Rob Lemmens, 2006

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Twelfth National Conference on Artificial Intelligence American Association for Artificial Intelligence, 1994

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