


Lecture Notes  
in Geoinformation and Cartography

LNG&C

Igor Ivan · Itzhak Benenson  
Bin Jiang · Jiří Horák  
James Haworth · Tomáš Inspektor *Editors*

# Geoinformatics for Intelligent Transportation

 Springer

# Geoinformatics For Intelligent Transportation Lecture Notes In Geoinformation And Cartography

**National Research Council (U.S.).  
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## **Geoinformatics For Intelligent Transportation Lecture Notes In Geoinformation And Cartography:**

Geoinformatics for Intelligent Transportation Igor Ivan, Itzhak Benenson, Bin Jiang, Jiří Horák, James Haworth, Tomáš Inspektor, 2014-11-29 The aim of the book is to present and discuss new methods issues and challenges involved in geoinformatics contribution to making transportation more intelligent efficient and human friendly It covers a wide range of topics related to transportation and geoinformatics The themes are divided into four main sections Transport modeling Sensor data and services Intelligent transport systems and Transport planning and accessibility **Dynamics in GIScience** Igor Ivan, Jiří Horák, Tomáš Inspektor, 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

**Transport Development Challenges in the 21st Century** Michal Suchanek, 2021-04-27 This proceedings present current trends in the transport growth It presents transport solutions both at a micro level such as that of a single city or a single company as well as at a macro level of a whole transportation system The transport decisions made by an individual in regards to the transport mode and route add up to the structure and efficiency of the whole system Transport systems cannot grow extensively anymore due to lack of space or the amount of additional costs so the authors presents new solutions ones which are innovative and sustainable while also increasing the efficiency of transport operations These solutions are analyzed for performance at a scale of individual cities or companies as well as whole transport systems The researchers who are often also practitioners in the field of transport provide not only the theoretical background for the transport analysis but also empirical data and practical experience **Advances and Trends in Engineering Sciences and Technologies II**

Mohamad Al Ali, Peter Platko, 2016-11-30 These are the proceedings of the 2nd International Conference on Engineering Sciences and Technologies ESaT 2016 held from 29th of June until the 1st of July 2016 in the scenic High Tatras Mountains Tatranská Matliare Slovak Republic After the successful implementation and excellent feedback of the first international conference ESaT 2015 ESaT 2016 was organized under the auspices of the Faculty of Civil Engineering Technical University of Košice Slovak Republic in collaboration with the University of Miskolc Hungary The conference focused on a wide

spectrum of topics and subject areas in civil engineering sciences The proceedings bringing new and original advances and trends in various fields of engineering sciences and technologies that accost a wide range of academics scientists researchers and professionals from universities and practice The authors of the articles originate from different countries around the world guaranteeing the importance topicality quality and level of presented results      **Computational Collective**

**Intelligence. Technologies and Applications** Ngoc Thanh Nguyen,Kiem Hoang,Piotr Jedrzejowicz,2012-11-28 The two volumes set LNCS 7653 and 7654 constitutes the refereed proceedings of the 4th International Conference on Computational Collective Intelligence ICCCI held in Ho Chi Minh City Vietnam in November 2012 The 113 revised full papers presented were carefully reviewed and selected from 397 submissions The papers are organized in topical sections on Part I knowledge integration data mining for collective processing fuzzy modal and collective systems nature inspired systems language processing systems social networks and semantic web agent and multi agent systems classification and clustering methods modeling and optimization techniques for business intelligence Part II multi dimensional data processing web systems intelligent decision making methods for scheduling collective intelligence in web systems web systems analysis advanced data mining techniques and applications cooperative problem solving computational swarm intelligence and semantic methods for knowledge discovery and communication      Geospatial Thinking Marco Painho,Maribel Yasmina Santos,Hardy Pundt,2010-07-20 For the fourth consecutive year the Association of Geographic Information Laboratories for Europe AGILE promoted the edition of a book with the collection of the scientific papers that were submitted as full papers to the AGILE annual international conference Those papers went through a competitive review process The 13 AGILE conference call for full papers of original and unpublished fundamental scientific research resulted in 54 submissions of which 21 were accepted for publication in this volume acceptance rate of 39% Published in the Springer Lecture Notes in Geoinformation and Cartography this book is associated to the 13 AGILE Conference on Geographic Information Science held in 2010 in Guimaraes Portugal under the title Geospatial Thinking The efficient use of geospatial information and related technologies assumes the knowledge of concepts that are fundamental components of Geospatial Thinking which is built on reasoning processes spatial conceptualizations and representation methods Geospatial Thinking is associated with a set of cognitive skills consisting of several forms of knowledge and cognitive operators used to transform combine or in any other way act on that same knowledge The scientific papers published in this volume cover an important set of topics within Geoinformation Science including Representation and Visualisation of Geographic Phenomena Spatiotemporal Data Analysis Geo Collaboration Participation and Decision Support Semantics of Geoinformation and Knowledge Discovery Spatiotemporal Modelling and Reasoning and Web Services Geospatial Systems and Real time Applications      Emerging Developments and Technologies in Digital Government Guo, Yuanyuan,2024-04-15 As the digital government field continues to evolve rapidly scholars and professionals must stay ahead of the curve by developing innovative solutions and gaining comprehensive insights The global

landscape of digital governance is undergoing transformative shifts necessitating a deep understanding of historical developments current practices and emerging trends This urgent demand for knowledge forms the crux of the problem that the book *Emerging Developments and Technologies in Digital Government* addresses with expert knowledge and insights The book serves as an indispensable resource for academic scholars grappling with the complexities of digital government It critically examines historical transitions from technology centric paradigms to people centric models shedding light on the global impact of open data initiatives and the vital role of human computer interaction in reshaping government websites For professionals and researchers across disciplines such as library sciences administrative management sociology and information technology this book becomes a beacon offering insights and tangible solutions to navigate the multifaceted dimensions of digital government

*Information Fusion and Intelligent Geographic Information Systems (IF&IGIS'17)* Vasily Popovich, Manfred Schrenk, Jean-Claude Thill, Christophe Claramunt, Tianzhen Wang, 2017-07-24 This book presents the proceedings of the 8th international Symposium Information Fusion and Intelligent Geographic Information Systems 2017 IF IGIS 2017 which took place at Shanghai Maritime University China from May 10 to 12 2017 The goal of the symposium was to bring together leading global experts in the field of spatial information integration and intelligent GIS IGIS to exchange cutting edge research ideas and experiences to discuss perspectives on the fast paced development of geospatial information theory methods and models in order to demonstrate the latest advances in IGIS and discover new ways of collaboration The topics focus on IGIS fundamentals models technologies and services in maritime research such as underwater acoustics radiolocation navigation marine energy logistics environmental management seafood safety of maritime navigation and others In addition the book discusses the integration of IGIS technologies in the emerging field of digital humanities research

**Geographic Information Systems for Transportation** Harvey J. Miller, Shih-Lung Shaw, 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

**Information Fusion and Geographic Information Systems (IF&GIS 2013)** Vasily Popovich, Christophe Claramunt, Manfred Schrenk, Kyrill Korolenko, 2013-12-04 The Workshop Proceedings reflect problems of advanced geo information science with a special emphasis on environmental and urban challenges The Proceedings incorporate papers presented by leading scientists doing research on environmental issues from modeling to analysis information processing and visualization As well as practitioners engaged in GIS and GIS applications development The Proceedings pay close attention to the problems of scientific and technological innovations as well application opportunities such as getting environmental and global warming problems under control as well as the

monitoring planning and simulation of urban systems with respect to economic trends as related to Artificial intelligence GIS ontologies GIS data integration and modeling Environmental management Urban GIS Transportation GIS GIS data fusion GIS and corporate information systems GIS and real time monitoring systems GIS algorithms and computational issues Landscape studies Global warming GIS and the Arctic sea Novel and emerging GIS research areas Maritime and environmental GIS and Coastal GIS

**Geoinformation for Informed Decisions** Alias Abdul Rahman, Pawel Boguslawski, François Anton, Mohamad Nor Said, Kamaludin Mohd Omar, 2014-07-08 This book presents the latest research developments in geoinformation science which includes all the sub disciplines of the field such as geomatic engineering GIS remote sensing digital photogrammetry digital cartography etc

**Initiatives in Information Technology and Geospatial Science for Transportation** National Research Council (U.S.). Transportation Research Board, 2003

*Telegeoinformatics* Hassan A. Karimi, 2004-03-15 Telegeoinformatics is a new discipline resulting from the integration of mobile computing with wired and wireless communications geoinformatics including GIS and GPS and remote sensing techniques and technologies Users of telegeoinformatics from every field will need a comprehensive reference to solve multiple types of problems involving locat

**Advances in Spatial Data Handling and GIS** Anthony G.O. Yeh, Wenzhong Shi, Yee Leung, Chenghu Zhou, 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

*OpenStreetMap in GIScience* Jamal Jokar Arsanjani, Alexander Zipf, Peter Mooney, Marco Helbich, 2015-03-03 This edited volume presents a collection of lessons learned with and research conducted on OpenStreetMap the goal being to promote the project s integration The respective chapters address a state of the art and cutting edge approaches to data quality analysis in OpenStreetMap b investigations on understanding OpenStreetMap contributors and the nature of their contributions c identifying patterns of contributions and contributors d applications of OpenStreetMap in different domains e mining value added knowledge and information from OpenStreetMap f limitations in the analysis OpenStreetMap data and g integrating OpenStreetMap with commercial and non commercial datasets The book offers an ideal opportunity to present and disseminate a number of cutting edge developments and applications in the field of geography spatial statistics GIS social science and cartography

Lecture Notes in Geoinformation and Cartography W. Cartwright, G. Gartner, L. Meng, M.P. Peterson, **The Integration of GIS and Transportation Modeling** Sharon Adams Boxill, 2005

3D Geo-Information Sciences. Lecture Notes in Geoinformation and Cartography Philipp Knofel, 2009

Information Fusion and Geographic Information Systems Vasily V. Popovich, Manfred Schrenk, Christophe Claramunt, Kyrill V. Korolenko, 2010-10-28 This volume contains the papers presented at the International Workshop Information Fusion and Geographic Information Systems IF GIS 09 held in St Petersburg Russia in May 2009 The workshop was organized by the St Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences SPIIRAS The workshop continues a series organised biannually and attracts academics and industrials from a wide range of disciplines including computer science geography statistics mathematics hydrography geomorphology and environmental sciences The objective of this workshop is to provide a forum for innovative research oriented towards Geographic Information Science and technologies and Corporate Information Systems whose close association highlight novel theoretical and practical challenges The papers selected by the International Program Committee cover a wide range of innovative areas including ontological and semantic approaches for the representation of geographical data geographical data monitoring situation management and forecast to emerging applications oriented to the maritime environment disaster management and security threats While traditional topics of GIS conferences are well represented and still being advanced several new domains appear and stress the need for the development of versatile monitoring systems and decision making systems While GIS already have a de facto standard for geographical monitoring and analysis the papers accepted in this volume also illustrate several novel directions of application whose objective is more closely oriented to process modeling and decision making and where the nature of the objects represented is revisited using ontological and semantic approaches

**Geographic Information Systems for Transportation** Shih-Lung Shaw, 2011

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