


Anna Petrasova · Brendan Harmon
Vaclav Petras · Payam Tabrizian
Helena Mitasova

Tangible Modeling with Open Source GIS

Second Edition

 Springer

Tangible Modeling Open Source Gis

Jonathon Anderson, Daniel Ortega



Tangible Modeling Open Source Gis:

Tangible Modeling with Open Source GIS Anna Petrasova, Brendan Harmon, Vaclav Petras, Payam Tabrizian, Helena Mitasova, 2018-05-11 This book provides an overview of the latest developments in the fast growing field of tangible user interfaces. It presents a new type of modeling environment where the users interact with geospatial data and simulations using a 3D physical landscape model coupled with a 3D rendering engine. Multiple users can modify the physical model while it is being scanned, providing input for geospatial analysis and simulations. The results are then visualized by projecting images or animations back on the physical model while photorealistic renderings of human views are displayed on a computer screen or in a virtual reality headset. New techniques and software which couple the hardware set up with open source GRASS GIS and Blender rendering engine make the system instantly applicable to a wide range of applications in geoscience education, landscape design, computer games, stakeholder engagement and many others. This second edition introduces a new, more powerful version of the tangible modeling environment with multiple types of interaction including polymeric sand molding, placement of markers and delineation of areas using colored felt patches. Chapters on coupling tangible interaction with 3D rendering engine and immersive virtual environment and a case study integrating the tools presented throughout this book demonstrate the second generation of the system: Immersive Tangible Landscape, that enhances the modeling and design process through interactive rendering of modeled landscape. This book explains the main components of the Immersive Tangible Landscape System and provides the basic workflows for running the applications. The fundamentals of the system are followed by a series of example applications in geomorphometry, hydrology, coastal and fluvial flooding, fire spread, landscape and park design, solar energy, trail planning and others. Graduate and undergraduate students and educators in geospatial science, earth science, landscape architecture, computer graphics and games, natural resources and many other disciplines will find this book useful as a reference or secondary textbook. Researchers who want to build and further develop the system will most likely be the core audience, but also anybody interested in geospatial modeling applications. Hazard risk management, hydrology, solar energy, coastal and fluvial flooding, fire spread, landscape and park design will want to purchase this book.

Open Source Geospatial Science for Urban Studies Amin Mobasheri, 2020-09-07 This book is mainly focused on two themes: transportation and smart city applications. Open geospatial science and technology is an increasingly important paradigm that offers the opportunity to promote the democratization of geographical information, the transparency of governments and institutions as well as social, economic and urban opportunities. During the past decade, developments in the area of open geospatial data have greatly increased. The open source GIS research community believes that combining free and open software, open data as well as open standards leads to the creation of a sustainable ecosystem for accelerating new discoveries to help solve global cross-disciplinary urban challenges. The vision of this book is to enrich the existing literature on this topic and act one step towards more sustainable cities through employment of open source GIS solutions that are

reproducible Various contributions are provided and practically implemented in several urban use cases Therefore apart from researchers lecturers and students in the geography urbanism domain crowdsourcing and VGI domain as well as open source GIS domain it is believed the specialists and mentors in municipalities and urban planning departments as well as professionals in private companies would be interested to read this book

Modelling, Simulation and Applications of Complex Systems Mohd Hafiz Mohd,Md Yushalify Misro,Syakila Ahmad,Doanh Nguyen Ngoc,2021-06-10 This book discusses the latest progresses and developments on complex systems research and intends to give an exposure to prospective readers about the theoretical and practical aspects of mathematical modelling numerical simulation and agent based modelling frameworks The main purpose of this book is to emphasize a unified approach to complex systems analysis which goes beyond to examine complicated phenomena of numerous real life systems this is done by investigating a huge number of components that interact with each other at different microscopic and macroscopic scales new insights and emergent collective behaviours can evolve from the interactions between individual components and also with their environments These tools and concepts permit us to better understand the patterns of various real life systems and help us to comprehend the mechanisms behind which distinct factors shaping some complex systems phenomena being influenced This book is published in conjunction with the International Workshop on Complex Systems Modelling Simulation 2019 CoSMoS 2019 IoT Big Data Integration This international event was held at the Universiti Sains Malaysia Main Campus Penang Malaysia from 8 to 11 April 2019 This book appeals to readers interested in complex systems research and other related areas such as mathematical modelling numerical simulation and agent based modelling frameworks

Innovations in Landscape Architecture Jonathon Anderson,Daniel Ortega,2016-05-20 This inspiring and thought provoking book explores how recent innovations in landscape architecture have uniquely positioned the practice to address complex issues and technologies that affect our built environment The changing and expanding nature of landscape make it more important than ever for landscape architects to seek innovation as a critical component in the forward development of a contemporary profession that merges expansive ideas and applications The editors bring together leading contributors who are experts in new and pioneering approaches and technologies within the fields of academic and professional landscape architecture The chapters explore digital technology design processes and theoretical queries that shape the contemporary practice of landscape architecture Topics covered include Digital design Fabrication and prototyping Emerging technology Visualization of data System theory Concluding the book are case studies looking at the work of two landscape firms PEG and MYKD and two academic departments Illinois Institute of Technology and the Rhode Island School of Design which together show the novel and exciting directions that landscape is already going in

Interactive Mobile Communication Technologies and Learning Michael E. Auer,Thrasyvoulos Tsiatsos,2018-02-13 Interactive mobile technologies have now become the core of many if not all fields of society Not only do the younger generation of students expect a mobile working and learning

environment but also the new ideas technologies and solutions introduced on a nearly daily basis also boost this trend Discussing and assessing key trends in the mobile field were the primary aims of the 11th International Conference on Interactive Mobile Communication Technologies and Learning IMCL2017 which was held in Thessaloniki from 30 November to 01 December 2017 Since being founded in 2006 the conference has been devoted to new approaches in interactive mobile technologies with a focus on learning The IMCL conferences have in the meanwhile become a central forum of the exchange of new research results and relevant trends as well as best practices This book contains papers in the fields of Future Trends and Emerging Mobile Technologies Design and Development of Mobile Learning Apps and Content Mobile Games Gamification and Mobile Learning Adaptive Mobile Environments Augmented Reality and Immersive Applications Tangible Embedded and Embodied Interaction Interactive Collaborative and Blended Learning Digital Technology in Sports Mobile Health Care and Training Multimedia Learning in Music Education 5G Network Infrastructure Case Studies Real World Experiences The content will appeal to a broad readership including policymakers academics educators researchers in pedagogy and learning theory school teachers the learning industry further education lecturers etc

Emerging Technologies for Disaster Resilience Mihoko Sakurai,Rajib Shaw,2021-05-06 Technological advances have helped to enhance disaster resilience through better risk reduction response mitigation rehabilitation and reconstruction In former times it was local and traditional knowledge that was mainly relied upon for disaster risk reduction Much of this local knowledge is still valid in today s world even though possibly in different forms and contexts and local knowledge remains a shared part of life within the communities In contrast with the advent of science and technology scientists and engineers have become owners of advanced technologies which have contributed significantly to reducing disaster risks across the globe This book analyses emerging technologies and their effects in enhancing disaster resilience It also evaluates the gaps challenges capacities required and the way forward for future disaster management A wide variety of technologies are addressed focusing specifically on new technologies such as cyber physical systems geotechnology drone and virtual reality VR augmented reality AR Other sets of emerging advanced technologies including an early warning system and a decision support system are also reported on Moreover the book provides a variety of discussions regarding information management communication and community resilience at the time of a disaster This book s coverage of different aspects of new technologies makes it a valuable resource for students researchers academics policymakers and development practitioners

Springer Handbook of Geographic Information Wolfgang Kresse,David Danko,2022-06-24 This handbook provides an exhaustive one stop reference and a state of the art description of geographic information and its use This new substantially updated edition presents a complete and rigorous overview of the fundamentals methods and applications of the multidisciplinary field of geographic information systems Designed to be a useful and readable desk reference book but also prepared in various electronic formats this title allows fast yet comprehensive review and easy retrieval of essential reliable

key information The Springer Handbook of Geographic Information is divided into three parts Part A Basics and Computer Science provides an overview on the fundamentals including descriptions of databases and encoding of geographic information It also covers the underlying mathematical and statistics methods and modeling A new chapter exemplifies the emerging use and analysis of big data in a geographic context Part B offers rigorous descriptions of gathering processing and coding of geographic information in a standardized way to allow interoperable use in a variety of systems from traditional methods such as geodesy and surveying to state of the art remote sensing and photogrammetry from cartography to geospatial web services Discussions on geosemantic interoperability and security of open distributed geospatial information systems complete the comprehensive coverage The final part describes a wide array of applications in science industry and society at large such as agriculture defense transportation energy and utilities health and human services The part is enhanced by new chapters on smart cities and building information modeling as well as a complete overview of the currently available open source geographic information systems Using standardized international terminology in accordance with ISO TC 211 and INSPIRE this handbook facilitates collaboration between different disciplines and is a must have for practitioners and new comers in industry and academia

Tangible GIS for Real-Time Human Interaction with Landscape Models

,2005 New technologies that combine the flexibility of digital landscape representation with 3D physical scale models are changing users interaction with geospatial data This study investigated the coupling of open source GRASS Geographic Information System GIS with the Illuminated Clay system to explore the possible development of a Tangible Geospatial Modeling system that allows users to interact with landscape analysis and simulations using a flexible physical model In this system the laser scans a model surface that can be modified by hand and the effects of any modifications on a selected terrain parameter e g slope slow is then projected on the surface in near real time The coupling of GIS with the Illuminated Clay system provides the tools needed for georeferenced data management and processing the integration of data from various sources and pre processing for the tangible environment To demonstrate the system s functionality it is applied to a situation in which terrain modifications are performed to prevent local flooding in a small watershed The coupling options investigated allow users to build scalable systems ranging from simple low cost options to sophisticated geospatial modeling environments with real time responses to landscape modifications Physically tangible environments have the potential to fundamentally change users interactions with digital landscape models by making them more accessible and easier to understand

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Geographical Information Systems, 2 Volume Set Paul A. Longley,Michael F. Goodchild,David J. Maguire,David W.

Rhind,1999-01-25 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

Archaeological Informatics Göran Burenhult, Johan Arvidsson, 2002 **Fundamentals of Geographic Information Systems** Michael N. DeMers, 2005 Publisher's description This comprehensive look at GIS doesn't overwhelm with details equations or computer codes Instead the author interweaves the ideas of geographic inquiry and spatial discovery inviting readers to join in the excitement of discovery as it takes place within the computerized world of the digital GIS databases After discussing spatial and mapping concepts the author sequentially addresses the components of GIS systems A final chapter spotlights the process of designing and implementing a GIS system 7th Annual Symposium on Geographic Information Systems in Forestry, Environment and Natural Resources Management, 1993 *BAR International Series*, 2002
1997 IEEE International Geoscience and Remote Sensing Symposium Tammy I. Stein, 1997 Advances in remote sensing and applications to agriculture commerce and business are reported in this text Improvements in detection and forecasting of weather parameters are also covered and approaches to sensing and measurement of natural resources are described

Whispering the Techniques of Language: An Psychological Journey through **Tangible Modeling Open Source Gis**

In a digitally-driven earth where monitors reign supreme and immediate interaction drowns out the subtleties of language, the profound techniques and mental nuances hidden within phrases frequently move unheard. Yet, situated within the pages of **Tangible Modeling Open Source Gis** a charming literary prize blinking with organic feelings, lies an exceptional journey waiting to be undertaken. Published by a skilled wordsmith, this wonderful opus encourages visitors on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the fabric of each word. Within the psychological depths with this touching evaluation, we can embark upon a sincere exploration of the book is core subjects, dissect their interesting writing design, and yield to the effective resonance it evokes serious within the recesses of readers hearts.

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