

Yee Leung

Intelligent Spatial Decision Support Systems

ADVANCES IN
SPATIAL SCIENCE



Springer

Intelligent Spatial Decision Support Systems Advances In Spatial Science

**Dimitris Ballas, Graham Clarke, Rachel
Franklin, Andy Newing**



Intelligent Spatial Decision Support Systems Advances In Spatial Science:

Intelligent Spatial Decision Support Systems Yee Leung, 2012-12-06 In the past half century we have experienced two major waves of methodological development in the study of human behavior in space and time The first wave was the well known quantitative revolution which propelled geography from a mainly descriptive discipline to a scientific discipline using formalism such as probability statistics and a large number of mathematical methods for analyzing spatial structures and processes under certainty and uncertainty The second wave is the recent advancement of geographical information systems which equips geographers with automation in the storage retrieval analysis and display of data Both developments have significant impacts on geographical studies in general and solutions to real life spatio temporal problems in particular They have found applications in urban and regional planning automated mapping and facilities management transportation planning and management as well as environmental planning and management to name but a few examples Both developments have one thing in common They one way or the other use computer to process and analyze data However not until recently there has been very little interaction between the two Quantitative models have largely been developed independent of the underlying data models and structures representing the spatial phenomena or processes under study Display of analysis results has been primitive in terms of the utilization of computer graphic technologies Formal models in addition to their technical difficulties have poor capability in communication with users Geographical information systems on the other hand have originally been developed with a slight intention to entertain powerful analytical models

Spatial Decision Support Systems Ramanathan Sugumaran, John Degroote, 2010-11-15 This book provides a comprehensive examination of the various aspects of SDSS evolution components architecture and implementation Integrating research from a variety of disciplines it supplies a complete overview of SDSS technologies and their application This groundbreaking reference provides thorough coverage of the roots of SDSS It explains the core principles of SDSS how to use them in various decision making contexts and how to design and develop them using readily available enabling technologies and commercial tools

Time-Integrative Geographic Information Systems Thomas Ott, Frank Swiaczny, 2012-12-06 The book deals with the integration of temporal information in Geographic Information Systems The main purpose of an historical or time integrative GIS is to reproduce spatio temporal processes or sequents of events in the real world in the form of a model The model thus making them accessible for spatial query analysis and visualization This volume reflects both theoretical thoughts on the interrelations of space and time as well as practical examples taken from various fields of application e g business data warehousing demographics history and spatial analysis

Strategic Information Systems: Concepts, Methodologies, Tools, and Applications Hunter, M. Gordon, 2009-08-31 This 4 volume set provides a compendium of comprehensive advanced research articles written by an international collaboration of experts involved with the strategic use of information systems Provided by publisher Proceedings of the Thirteenth International Conference on Management Science and Engineering

Management Jiuping Xu, Syed Ejaz Ahmed, Fang Lee Cooke, Gheorghe Duca, 2019-06-19 This book gathers the proceedings of the 13th International Conference on Management Science and Engineering Management ICMSEM 2019 which was held at Brock University Ontario Canada on August 5 8 2019 Exploring the latest ideas and pioneering research achievements in management science and engineering management the respective contributions highlight both theoretical and practical studies on management science and computing methodologies and present advanced management concepts and computing technologies for decision making problems involving large uncertain and unstructured data Accordingly the proceedings offer researchers and practitioners in related fields an essential update as well as a source of new research directions

Intelligent Decision Support Systems Miquel Sànchez-Marrè, 2022-03-28 This book with invaluable contributions of Professor Franz Wotawa in chapters 5 and 7 presents the potential use and implementation of intelligent techniques in decision making processes involved in organizations and companies It provides a thorough analysis of decisions reviewing the classical decision theory and describing usual methods for modeling the decision process It describes the chronological evolution of Decision Support Systems DSS from early Management Information Systems until the appearance of Intelligent Decision Support Systems IDSS It explains the most commonly used intelligent techniques both data driven and model driven and illustrates the use of knowledge models in Decision Support through case studies The author pays special attention to the whole Data Science process which provides intelligent data driven models in IDSS The book describes main uncertainty models used in Artificial Intelligence to model inexactness covers recommender systems and reviews available development tools for inducing data driven models for using model driven methods and for aiding the development of Intelligent Decision Support Systems *The Development of an Integrated Planning and Decision Support System (IPDSS) for Land*

Consolidation Demetris Demetriou, 2013-11-01 This book provides an extensive review of three interrelated issues land fragmentation land consolidation and land reallocation and it presents in detail the theoretical background design development and application of a prototype integrated planning and decision support system for land consolidation The system integrates geographic information systems GIS and artificial intelligence techniques including expert systems ES and genetic algorithms GAs with multi criteria decision methods MCDM both multi attribute MADM and multi objective MODM The system is based on four modules for measuring land fragmentation automatically generating alternative land redistribution plans evaluating those plans and automatically designing the land partitioning plan The presented research provides a new scientific framework for land consolidation planning both in terms of theory and practice by presenting new findings and by developing better tools and methods embedded in an integrated GIS environment It also makes a valuable contribution to the fields of GIS and spatial planning as it provides new methods and ideas that could be applied to improve the former for the benefit of the latter in the context of planning support systems From the 1960s ambitious research activities set out to observe regarding IT support of the complex and time consuming redistribution processes within land

consolidation without any practically relevant results until now This scientific work is likely to close that gap This distinguished publication is highly recommended to land consolidation planning experts researchers and academics alike Prof Dr Ing Joachim Thomas Münster Germany Planning support systems take new scientific tools based on GIS optimisation and simulation and use these to inform the process of plan making and policy This book is one of the first to show how this can be consistently done and it is a triumph of demonstrating how such systems can be made operational Essential reading for planners analysts and GI scientists Prof Michael Batty University College London

Proceedings of the 8th International Conference on Decision Support System Technology - ICDSST 2022 on Decision Support addressing modern Industry, Business and Societal needs Jason Papathanasiou, Maria Paraskeva Belioika, Panagiota

Dikoglou, Dimitrios Zopounidis, 2022-05-23 Decision Support Systems XIII. Decision Support Systems in An Uncertain World: The Contribution of Digital Twins Shaofeng Liu, Pascale Zaraté, Daouda Kamissoko, Isabelle Linden, Jason

Papathanasiou, 2023-05-17 This book constitutes the proceedings of the 9th International Conference on Decision Support Systems Technologies ICDSST 2023 held during May 30 June 1 2023 The EWG DSS series of International Conference on Decision Support System Technology ICDSST is planned to consolidate the tradition of annual events organized by the EWG DSS in offering a platform for European and international DSS communities comprising the academic and industrial sectors to present state of the art DSS research and developments to discuss current challenges that surround decision making processes to exchange ideas about realistic and innovative solutions and to co develop potential business opportunities The main theme of this year was Decision Support Systems in An Uncertain World The Contribution of Digital Twins The 21 papers presented in this volume were carefully reviewed and selected from 65 submissions They were organized in topical sections as follows DSS models methods and tools DSS for business performance and stakeholders DSS applications for sustainability in health energy and transportation and DSS users and successful adoption

Advances in Intelligent Data Analysis and Applications Jeng-Shyang Pan, Valentina Emilia Balas, Chien-Ming Chen, 2021-11-25 This book constitutes the Proceeding of the Sixth International Conference on Intelligent Data Analysis and Applications October 15 18 2019 Arad Romania This edition is technically co sponsored by Aurel Vlaicu University of Arad Romania Southwest Jiaotong University Fujian University of Technology Chang an University Shandong University of Science and Technology Fujian Provincial Key Lab of Big Data Mining and Applications and National Demonstration Center for Experimental Electronic Information and Electrical Technology Education Fujian University of Technology China Romanian Academy and General Association of Engineers in Romania Arad Section The book covers a range of topics Machine Learning Intelligent Control Pattern Recognition Computational Intelligence Signal Analysis Modeling and Visualization Multimedia Sensing and Sensory Systems Signal control Imaging and Processing Information System Security Cryptography and Cryptanalysis Databases and Data Mining Information Hiding Cloud Computing Information Retrieval and Integration Robotics Control Agents Command

Control Communication and Computers C4 Swarming Technology Sensor Technology Smart cities The book offers a timely board snapshot of new development including trends and challenges that are yielding recent research directions in different areas of intelligent data analysis and applications The book provides useful information to professors researchers and graduated students in area of intelligent data analysis and applications

GIS and the Social Sciences Dimitris Ballas,Graham Clarke,Rachel Franklin,Andy Newing,2017-09-18 GIS and the Social Sciences offers a uniquely social science approach on the theory and application of GIS with a range of modern examples It explores how human geography can engage with a variety of important policy issues through linking together GIS and spatial analysis and demonstrates the importance of applied GIS and spatial analysis for solving real world problems in both the public and private sector The book introduces basic theoretical material from a social science perspective and discusses how data are handled in GIS what the standard commands within GIS packages are and what they can offer in terms of spatial analysis It covers the range of applications for which GIS has been primarily used in the social sciences offering a global perspective of examples at a range of spatial scales The book explores the use of GIS in crime health education retail location urban planning transport geodemographics emergency planning and poverty income inequalities It is supplemented with practical activities and datasets that are linked to the content of each chapter and provided on an eResource page The examples are written using ArcMap to show how the user can access data and put the theory in the textbook to applied use using proprietary GIS software This book serves as a useful guide to a social science approach to GIS techniques and applications It provides a range of modern applications of GIS with associated practicals to work through and demonstrates how researcher and policy makers alike can use GIS to plan services more effectively It will prove to be of great interest to geographers as well as the broader social sciences such as sociology crime science health business and marketing

Managing Natural Resource Conflicts with Participatory Mapping and PGIS Applications Peter A. Kwaku Kyem,2021-08-04 This book integrates spatial analysis into the study and management of conflicts and offers a model in conflict studies that incorporates theoretical explanations of conflict its causes and impacts with a geospatial strategy for intervening in disputes over allocation and use of natural resources connects theory and practice Alongside a theoretical analysis of resource conflicts and an account of Participatory Mapping and PGIS development this book provides a case study of GIS applications in conflict mediation The book also lays out a practical and straightforward demonstration of PGIS applications in conflict management using a real world case study and traces the Participatory Mapping and PGIS movements evolution compares PPGIS and PGIS practices and makes distinctions between traditional GIS applications and PGIS practice The approach embodies the enhanced use of spatial information and media sets of tools for analyzing mapping and displaying spatial data and a platform for participatory discussions that enhances consensus building The book therefore contributes to the search for novel approaches for managing current and emerging conflicts With this book resource managers development practitioners students and scholars

of Participatory Mapping and PGIS applications and conflict studies will be equipped with the principles skills and the tools they need to manage non violent resource conflicts and keep the disputes from slipping into violence The book will also be a valuable text for basic and advanced studies in Participatory Mapping and PGIS applications Conflict Resolution and Conflict Management Decision Support Systems XI: Decision Support Systems, Analytics and Technologies in Response to Global Crisis Management Uchitha Jayawickrama,Pavlos Delias,María Teresa Escobar,Jason Papathanasiou,2021-05-17 This book constitutes the proceedings of the 7th International Conference on Decision Support Systems Technologies ICDSST 2021 held during May 26 28 2021 The conference was planned to take place in Loughborough UK and changed to an online format due to the COVID 19 pandemic The EWG DSS series of International Conference on Decision Support System Technology ICDSST is planned to consolidate the tradition of annual events organized by the EWG DSS in offering a platform for European and international DSS communities comprising the academic and industrial sectors to present state of the art DSS research and developments to discuss current challenges that surround decision making processes to exchange ideas about realistic and innovative solutions and to co develop potential business opportunities The main aim of this year s conference is to investigate the role DSS and related technologies can play in mitigating the impact of pandemics and post crisis recovery The 10 papers presented in this volume were carefully reviewed and selected from 44 submissions They were organized in two topical sections named multiple criteria approaches and advances in decision support systems technologies and methods

GeoComputational Modelling Manfred M. Fischer,Yee Leung,2013-03-09 Geocomputation may be viewed as the application of a computational science paradigm to study a wide range of problems in geographical systems contexts This volume presents a clear comprehensive and thoroughly state of the art overview of current research written by leading figures in the field It provides important insights into this new and rapidly developing field and attempts to establish the principles and to develop techniques for solving real world problems in a wide array of application domains with a catalyst to greater understanding of what geocomputation is and what it entails The broad coverage makes it invaluable reading for resarchers and professionals in geography environmental and economic sciences as well as for graduate students of spatial science and computer science Growth Hormone And The Heart Andrea Giustina,2000-11-30 Growth Hormone and the Heart endeavors to bring together knowledge that has been accumulated in the area of GH and the heart from basic to clinical studies by research groups working on this topic throughout the world Lessons from different experimental models and from several human diseases acromegaly adult GH deficiency heart failure suggest to endocrinologists and cardiologists that GH may not only have a role in the physiology and pathophysiology of heart function but that GH itself may have a place in the treatment of primary heart diseases such as dilated cardiomyopathy or of cardiac complications of hypopituitarism Growth Hormone and the Heart will be a useful update of the research produced in the field of cardiovascular endocrinology The Editors also hope that this book will serve as the primary step in the recognition of the wide physiological and clinical

significance of GH and heart interactions

Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence Trivedi, Shrawan Kumar,Dey, Shubhamoy,Kumar, Anil,Panda, Tapan

Kumar,2017-02-14 The development of business intelligence has enhanced the visualization of data to inform and facilitate business management and strategizing By implementing effective data driven techniques this allows for advance reporting tools to cater to company specific issues and challenges The Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence is a key resource on the latest advancements in business applications and the use of mining software solutions to achieve optimal decision making and risk management results Highlighting innovative studies on data warehousing business activity monitoring and text mining this publication is an ideal reference source for research scholars management faculty and practitioners

Encyclopedia of Information Science and Technology Mehdi

Khosrow-Pour,Mehdi Khosrowpour,2009 This set of books represents a detailed compendium of authoritative research based entries that define the contemporary state of knowledge on technology Provided by publisher

Decision Support

Systems XII: Decision Support Addressing Modern Industry, Business, and Societal Needs Ana Paula Cabral Seixas

Costa,Jason Papathanasiou,Uchitha Jayawickrama,Daouda Kamissoko,2022-05-12 This book constitutes the proceedings of the 8th International Conference on Decision Support Systems Technologies ICDSSST 2022 held during May 23 25 2022 The EWG DSS series of International Conference on Decision Support System Technology ICDSSST is planned to consolidate the tradition of annual events organized by the EWG DSS in offering a platform for European and international DSS communities comprising the academic and industrial sectors to present state of the art DSS research and developments to discuss current challenges that surround decision making processes to exchange ideas about realistic and innovative solutions and to co develop potential business opportunities The main aim of this year s conference is to investigate the role DSS and related technologies can play in mitigating the impact of pandemics and post crisis recovery The 15 papers presented in this volume were carefully reviewed and selected from 46 submissions They were organized in topical sections as follows decision support addressing modern industry decision support addressing business and societal needs and multiple criteria approaches

Advanced Computing Solutions for Healthcare Sivakumar Rajagopal, Prakasam P., Konguvel E., Shamala

Subramaniam, Ali Safaa Sadiq Al Shakarchi, B. Prabadevi,2025-07-01 Advanced Computing Solutions for Healthcare explores the transformative integration of advanced computing technologies into healthcare systems emphasizing innovation in patient care diagnostics and health monitoring Spanning 22 chapters it covers topics such as artificial intelligence machine learning IoT data science and wearable technologies The book bridges theoretical concepts and practical applications featuring neuromorphic computing IoT for healthcare AI driven diagnostics 5G in medicine augmented reality and mathematical modeling It highlights real world case studies and cutting edge methodologies including FPGA based accelerators deep learning models for disease classification and assistive technologies for inclusivity

Trade, Networks

and Hierarchies Geoffrey J.D. Hewings, Michael Sonis, David Boyce, 2013-04-18 In 1989 after several years of discussion and negotiation the Regional Economics Applications Laboratory REAL was formed This unique relationship between the Federal Reserve Bank of Chicago and the University of Illinois at Urbana Champaign has been a significant source of intellectual inspiration for many students visiting colleagues and members of the participating institutions for the past decade The idea for REAL was hatched by Philip Israilevich and Geoffrey Hewings in typical Chicago style in the back room of a local bar In early December 1997 their collaboration came to an untimely end when Philip died after a three year battle with cancer The challenge of moving across a spectrum from theory to model development to implementation and interpretation provided the underlying motivation for REAL's formation together with an equally important component namely the translation of many of these efforts into a form that could be understood and implemented by policy makers For Philip REAL and the Regional Science Association International provided the forums for his intellectual endeavors although he also contributed many papers in banking In recognition of his contributions and to provide a sense of the current research in the fields in which he published many of the authors of these chapters assembled in Chicago in November 1998 to participate in a small seminar in his honor Several others who were not able to come nevertheless contributed chapters to this volume Subsequently all of the papers have been revised and updated

Whispering the Techniques of Language: An Mental Journey through **Intelligent Spatial Decision Support Systems Advances In Spatial Science**

In a digitally-driven earth where displays reign great and instant connection drowns out the subtleties of language, the profound strategies and emotional subtleties concealed within phrases frequently go unheard. However, nestled within the pages of **Intelligent Spatial Decision Support Systems Advances In Spatial Science** a charming fictional treasure blinking with fresh feelings, lies a fantastic quest waiting to be undertaken. Published by an experienced wordsmith, that marvelous opus attracts readers on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the emotional depths of the touching evaluation, we shall embark upon a sincere exploration of the book's primary themes, dissect its fascinating publishing design, and fail to the effective resonance it evokes deep within the recesses of readers' hearts.

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