

Yee Leung

# Intelligent Spatial Decision Support Systems

ADVANCES IN  
SPATIAL SCIENCE



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# Intelligent Spatial Decision Support Systems

**Minli Dai**





## **Intelligent Spatial Decision Support Systems:**

**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 Although interest in Spatial Decision Support Systems SDSS continues to grow rapidly in a wide range of disciplines students planners managers and the research community have lacked a book that covers the fundamentals of SDSS along with the advanced design concepts required for building SDSS Filling this need **Spatial Decision Support System** **Intelligent Spatial Decision Support Systems** Raghubir Singh Sandhu, 1998 **Emerging Spatial Information Systems and Applications** Hilton, Brian, 2006-10-31 Several emerging phenomena and technologies such as the increasing availability of open source software and the continuing evolution of distributed computing are introducing a new dynamic into information system development **Emerging Spatial Information Systems and Applications** presents innovative spatial information systems that have been developed for a specific problem or decision making situation and discusses key concepts and theories underlying current spatial information systems as well as technology trends and emerging concepts that may impact spatial information system development and applications **Practical Applications of Fuzzy Technologies** Hans-Jürgen Zimmermann, 2012-12-06 Since the late 1980s a large number of very user friendly tools for fuzzy control fuzzy expert systems and fuzzy data analysis have emerged This has changed the character of this area and started the area of fuzzy technology The next large step in the development occurred in 1992 when almost independently in Europe Japan and the USA the three areas of fuzzy technology artificial



neural nets and genetic algorithms joined forces under the title of computational intelligence or soft computing The synergies which were possible between these three areas have been exploited very successfully Practical Applications of Fuzzy Sets focuses on model and real applications of fuzzy sets and is structured into four major parts engineering and natural sciences medicine management and behavioral cognitive and social sciences This book will be useful for practitioners of fuzzy technology scientists and students who are looking for applications of their models and methods for topics of their theses and even for venture capitalists who look for attractive possibilities for investments *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

**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 *Manufacturing Intelligence for Industrial Engineering: Methods for System Self-Organization, Learning, and Adaptation* Zhou, Zude, Wang, Huaiqing, Lou, Ping, 2010-03-31 This book focuses on the latest innovations in the process of manufacturing in engineering Provided by publisher *Intelligent Support Systems for Marketing Decisions* Nikolaos F. Matsatsinis, Y. Siskos, 2012-12-06 Intelligent Support Systems for Marketing Decisions examines new product development market penetration strategies and other marketing decisions utilizing a confluence of methods including Decision Support Systems DSS Artificial Intelligence in Marketing and Multicriteria Analysis The authors systematically examine the use and implementation of these methodologies in making strategic marketing decisions Part I discusses the basic concepts of multicriteria analysis vis vis marketing decisions and in new product development situations Part II presents basic concepts from the fields of Information Systems Decision Support Systems and Intelligent Decision Support Methods In addition specialized categories of DSS multicriteria DSS web based DSS group DSS spatial DSS are discussed in terms of their key features and current use in marketing applications Part III presents IDSS and a multicriteria methodology for new product development Further chapters present a



developmental strategy for analyzing designing and implementing an Intelligent Marketing Decision Support System The implementation discussion is illustrated with a real world example of the methods and system in use

**Decision Support Systems in Agriculture, Food and the Environment: Trends, Applications and Advances** Manos, Basil, Matsatsinis, Nikolaos, Paparrizos, Konstantinos, Papathanasiou, Jason, 2010-06-30 As national and international concern over sustainable resources becomes more prevalent the need for decision support systems DSS increases The applicable uses of a successful system can assist in the sustainability of resources as well as the efficiency and management of the agri environment industry Decision Support Systems in Agriculture Food and the Environment Trends Applications and Advances presents the development of DSS for managing agricultural and environmental systems focusing on the exposition of innovative methodologies from web mobile systems to artificial intelligence and knowledge based DSS as well as their applications in every aspect from harvest planning to international food production and land management This book provides an in depth look into the growing importance of DSS in agriculture

**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

[GeoComputation](#) Robert J. Abrahart, Linda M. See, 2014-06-23 A revision of Openshaw and Abrahart's seminal work GeoComputation Second



Edition retains influences of its originators while also providing updated state of the art information on changes in the computational environment In keeping with the field s development this new edition takes a broader view and provides comprehensive coverage across the Innovative Computing and Information Minli Dai,2011-08-30 This six volume set CCIS 231 232 233 234 235 236 constitutes the refereed proceedings of the International Conference on Computing Information and Control ICCIC 2011 held in Wuhan China in September 2011 The papers are organized in two volumes on Innovative Computing and Information CCIS 231 and 232 two volumes on Computing and Intelligent Systems CCIS 233 and 234 and in two volumes on Information and Management Engineering CCIS 235 and 236 Next-Generation Applied Intelligence Been-Chian Chien,Tzung-Pei Hong,Moonis Ali,2009-06-26 The International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems IEA AIE always sponsored by the International Society of Applied Intelligence ISAI emphasizes applications of applied intelligent systems to solve real life problems in all areas It is held every year and has become one of the biggest and most important academic activities concerning the theory and applications of intelligent systems in the world The IEA AIE 2009 conference was hosted by the National University of Tainan and National University of Kaohsiung in Taiwan This was the first time that the IEA AIE conference was held in Taiwan We received 286 papers from all parts of the world Only 84 papers were selected for publication in this volume of LNAI proceedings Each paper was reviewed by at least two anonymous referees to assure the high quality We would like to express our sincere thanks to the Program Committee members and all the reviewers for their hard work which helped us to select the highest quality papers for the conference These papers highlight opportunities and challenges for the next generation of applied intelligence and reveal technological innovations in real applications *Agricultural Internet of Things* Yong He,Pengcheng Nie,Qin Zhang,Fei Liu,2021-08-02 Internet of things IoT is a new type of network that combines communication technology expanded applications and physical devices Among them agriculture is one of the most important areas in the application of the IoT technology which has its unique requirements and integration features Compared to the information technology in traditional agriculture the agricultural IoT mainly refers to industrialized production and sustainable development under relatively controllable conditions Agricultural IoT applies sensors RFID visual capture terminals and other types of sensing devices to detect and collect site information and with broad applications in field planting facility horticulture livestock and poultry breeding aquaculture and agricultural product logistics It utilizes multiple information transmission channels such as wireless sensor networks telecommunications networks and the internet to achieve reliable transmission of agricultural information at multiple scales and intelligently processes the acquired massive information The goals are to achieve i optimal control of agricultural production process ii intelligent electronic trading of agricultural products circulation and iii management of systematic logistics quality and safety traceability This book focuses on three levels of agricultural IoT network information perception technology information transmission technology and



application technology      **Hybrid Artificial Intelligent Systems** Pablo García Bringas,Hilde Pérez García,Francisco Javier Martínez de Pisón,José Ramón Villar Flecha,Alicia Troncoso Lora,Enrique A. de la Cal,Álvaro Herrero,Francisco Martínez Álvarez,Giuseppe Psaila,Héctor Quintián,Emilio Corchado,2022-09-11 This book constitutes the refereed proceedings of the 17th International Conference on Hybrid Artificial Intelligent Systems HAIS 2022 held in Salamanca Spain in September 2022 The 43 full papers presented in this book were carefully reviewed and selected from 67 submissions They were organized in topical sections as follows bioinformatics data mining and decision support systems deep learning evolutionary computation HAIS applications image and speech signal processing and optimization techniques      *Modern Management Based on Big Data II and Machine Learning and Intelligent Systems III* A.J. Tallón-Ballesteros,2021-12-03 It is data that guides the path of applications and Big Data technologies are enabling new paths which can deal with information in a reasonable time to arrive at an approximate solution rather than a more exact result in an unacceptably long time This can be particularly important when dealing with an urgent issue such as that of the COVID 19 pandemic This book presents the proceedings of two conferences MMBD 2021 and MLIS 2021 The MMBD conference deals with two main subjects those of Big Data and Modern Management The MLIS conference aims to provide a platform for knowledge exchange of the most recent scientific and technological advances in the field of machine learning and intelligent systems Both conferences were originally scheduled to be held from 8 11 November 2021 in Quanzhou China and Xiamen China respectively Both conferences were ultimately held fully online on the same dates hosted by Huaqiao University in Quanzhou and Xiamen respectively The book is in two parts and contains a total of 78 papers 54 from MMBD2021 and 24 from MLIS2021 selected after rigorous review from a total of some 300 submissions The reviewers bore in mind the breadth and depth of the research topics that fall within the scope of MMBD and MLIS and selected the 78 most promising and FAIA mainstream relevant contributions for inclusion in this two part volume All the papers present original ideas or results of general significance supported by clear reasoning compelling evidence and rigorous methods      Application of Geospatial Technology and Modelling on Natural Resources Management Sandipan Das,Prem C. Pandey,Onesimo Mutanga,Suvarna Tikle,Mengjiao Jiang,Uday Chatterjee,Akash Anand,2025-07-04 This contributed volume provides coverage of geospatial technology and modelling techniques that are useful for natural resource assessment at various scales from regional to global This makes it a valuable resource for researchers practitioners scientists faculties and students interested in understanding how geospatial tools can be used to assess natural resources The book provides numerous examples of how geospatial technology and modeling can be applied to different natural resource management scenarios including forest management wildlife conservation water resources management and climate change adaptation The book takes an interdisciplinary approach to natural resource management bringing together perspectives from ecology environment geography geology and other fields      *Geo-Business* James B. Pick,2008-01-02 Exploit the advantages of Geographic Information Systems in your business Once



the domain of cartographers and other specialists Geographic Information Systems GIS are increasingly being employed by the business community Location based services supply chain management management of field distributed equipment geographical marketing and promotion and the spatial web are some of the current business applications which make use of GIS principles Written specifically for the businessperson Geo Business GIS in the Digital Organization is the first book to provide comprehensive coverage of GIS applications in the business and organizational environment Going beyond a strictly geographical focus this book sets GIS in the context of business information systems and other business sub disciplines such as logistics marketing finance and strategic management It presents from an organizational perspective the advantages of spatially enabling existing enterprise systems and illustrates how GIS is applied in the real world through rigorous case study analyses of twenty companies including Baystate Health Chico s Kaiser Permanente Lamar Advertising Company Rand McNally Southern Company Sears Roebuck and Sperry Van Ness In this book you ll find out What GIS is and how it can be integrated into your organization s existing information infrastructure How GIS is currently making businesses better and how you can apply the same techniques to your industry or organization The expanding roles of GIS and spatial technologies in the web and mobile environments The ethical legal and security issues of special technologies How to conduct a cost benefit and ROI analyses for GIS Grounded in the real world of business and IT Geo Business will show you how spatially enabling your IT systems can give you a unique advantage to beat your competitors in the market win and retain customers grow your business make better decisions develop new products and services and optimize your workflow **Decision**

**Support Systems VIII: Sustainable Data-Driven and Evidence-Based Decision Support** Fatima Dargam,Pavlos Delias,Isabelle Linden,Bertrand Mareschal,2018-05-15 This book constitutes the proceedings of the 4th International Conference on Decision Support Systems ICDSST 2018 held in Heraklion Greece in May 2018 The main topic of this year s conference was Sustainable Data Driven and Evidence Based Decision Support The 15 papers presented in this volume were carefully reviewed and selected from 71 submissions They were organized in topical sections named decision support systems for a sustainable society decision support systems serving the public decision support systems in management and organization and advances in decision support systems technologies and methods The EWG DSS series of International Conference on Decision Support System Technology ICDSST starting with ICDSST 2015 in Belgrade were 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



Intelligent Spatial Decision Support Systems: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. Intelligent Spatial Decision Support Systems : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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### Intelligent Spatial Decision Support Systems Introduction

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