

APPLIED OPTIMIZATION

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**FUZZY LOGIC FOR  
PLANNING AND  
DECISION MAKING**

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# Fuzzy Logic For Planning And Decision Making

**Dong Ye Sun, Wen Pei Sung, Ran Chen**

## **Fuzzy Logic For Planning And Decision Making:**

**Fuzzy Logic for Planning and Decision Making** Freerk A. Lootsma,2013-01-06      **Fuzzy Reasoning in Decision Making and Optimization** Christer Carlsson,Robert Fuller,2012-08-27 Many decision making tasks are too complex to be understood quantitatively however humans succeed by using knowledge that is imprecise rather than precise Fuzzy logic resembles human reasoning in its use of imprecise information to generate decisions Unlike classical logic which requires a deep understanding of a system exact equations and precise numeric values fuzzy logic incorporates an alternative way of thinking which allows modeling complex systems using a higher level of abstraction originating from our knowledge and experience Fuzzy logic allows expressing this knowledge with subjective concepts such as very big and a long time which are mapped into exact numeric ranges Since knowledge can be expressed in a more natural way by using fuzzy sets many decision and engineering problems can be greatly simplified Fuzzy logic provides an inference morphology that enables approximate human reasoning capabilities to be applied to knowledge based systems The theory of fuzzy logic provides a mathematical strength to capture the uncertainties associated with human cognitive processes such as thinking and reasoning The conventional approaches to knowledge representation lack the means for representing the meaning of fuzzy concepts As a consequence the approaches based on first order logic do not provide an appropriate conceptual framework for dealing with the representation of commonsense knowledge since such knowledge is by its nature both lexically imprecise and non categorical

Planning and Operation of Electric Vehicles in Smart Grids Mehdi Rahmani-Andebili,2023-08-14 Transportation electrification particularly using electric vehicles EV has been widely suggested to mitigate global warming and energy security issues due to their economic and environmental benefits Environmentalists are advertising EV use and governments are implementing financial incentives to expedite the transition from conventional vehicles to electric ones to achieve energy security and climate change mitigation goals At the same time EVs are becoming more affordable as their battery prices decrease It has been predicted that EV sales will soon surpass gasoline and diesel vehicle sales Therefore EVs will be one of the significant electricity customers in the future This fact hints that the uncontrolled charging and discharging of large numbers of EVs can put power systems at risk Hence optimal planning and operation of EVs is not only necessary but beneficial This collection covers recent research advancements in the planning and operation of EVs in smart grids

A global group of researchers and scholars present innovative approaches while covering the theoretical and experimental aspects

*Reliable Decision-Making for Sustainable Transportation* Gholamreza Haseli,Mostafa Hajiaghahi-Keshteli,Sarbast Moslem,2025-08-22 *Reliable Decision Making for Sustainable Transportation* explores decision making methods that incorporate expert and decision maker opinions for improved reliability The book examines fuzzy sets that capture ambiguity and enable a more comprehensive analysis of stakeholder perspectives focusing on transportation case studies to demonstrate techniques for weighing criteria ranking alternatives and selecting optimal and reliable decisions It seeks to

advance transportation planning traffic engineering road safety and sustainability by integrating state of the art decision support systems that leverage AI and multiple stakeholder viewpoints This approach will benefit researchers and professionals across transportation decision sciences supply chain management and operations looking for innovative ways to model uncertainty and decision maker reliability and providing methodologies and frameworks for more robust group decisions Introduces reliability concepts in decision making providing insights into the robustness of strategic choices for sustainable transportation Presents practical case studies within the transportation sector to illustrate the application of reliability principles in decision making offering tangible solutions to everyday challenges Provides reliable strategies for existing public transportation systems considering the unique challenges faced by investment departments and engineers in the planning process

**Strategic Planning Models for Reverse and Closed-Loop Supply Chains** Kishore K.

Pochampally, Satish Nukala, Surendra M. Gupta, 2008-09-22 The rapid technological development of new products coupled with the growing consumer desire for the latest technology has led to a new environmental problem products that are discarded prematurely But behind every problem lies an opportunity Many of these products can be reprocessed leading to savings in natural resources energy landfill s

*Spatial Analysis, Modelling and Planning* Jorge Rocha, José António

Tenedório, 2018-11-28 New powerful technologies such as geographic information systems GIS have been evolving and are quickly becoming part of a worldwide emergent digital infrastructure Spatial analysis is becoming more important than ever because enormous volumes of spatial data are available from different sources such as social media and mobile phones When locational information is provided spatial analysis researchers can use it to calculate statistical and mathematical relationships through time and space This book aims to demonstrate how computer methods of spatial analysis and modeling integrated in a GIS environment can be used to better understand reality and give rise to more informed and thus improved planning It provides a comprehensive discussion of spatial analysis methods and approaches related to planning

*Fuzzy Logic: a Rule-Based Approach, in Search of a Justified Decision-Making Process in Urban Planning* Reza Piroozfar, 2010

*Sustainable Enterprise Resource Planning (S-ERP) for Industry 4.0* Kushal Anjaria, 2025-10-02 This book delves into integrating sustainable practices within enterprise resource planning S ERP systems framework particularly in the context of Industry 4 0 It offers a comprehensive exploration of how S ERP systems can be developed and implemented to enhance operational efficiency and promote environmental and social sustainability which is achieved by incorporating cutting edge technologies such as the internet of things IoT artificial intelligence AI and cloud computing which are instrumental in Industry 4 0 Targeted primarily at professionals and academics in business management information technology and sustainability the book will be a crucial resource for those seeking to understand and implement S ERP solutions It is particularly beneficial for MBA students business strategists ERP consultants and IT professionals involved in planning developing and managing ERP systems Key topics include the principles of sustainable business practices the role of digital

technologies in enhancing ERP systems and the challenges and opportunities presented by Industry 4.0. The book also provides practical insights into implementing S/ERP systems offering case studies and real world examples to illustrate key concepts. It is thus not just an academic treatise but a practical guide that addresses the need for a new ERP approach in the digital transformation age. It seeks to equip its readers with the knowledge and tools required to successfully navigate the complexities of modern business environments, emphasising the importance of sustainability in achieving long term success. In summary, this book is a vital addition to the literature on ERP systems offering a fresh perspective on how businesses can evolve to meet the demands of the 21st century while maintaining a commitment to sustainability.

**Mine Planning and Equipment Selection 2004** Monika Hardygóra, Gabriela Paszkowska, Marek Sikora, 2004-08-15 Spearheading the promotion of international technology transfer in the fields of mine planning, mining systems design, equipment selection and operation techniques, the International Symposium on Mine Planning and Equipment Selection is recognised by the mining society as a key annual event in highlighting developments within the field. Here in this volume, proceedings from the thirteenth annual symposium concentrate on the following major topics: open pit and underground mine planning, modelling and design, geomechanics, mining and processing methods, design, monitoring and maintenance of mine equipment, simulation, optimization and control of technological processes, management, mine economics and financial analysis, health, safety and environmental protection. Including 147 papers from leading experts and authorities, Mine Planning and Equipment Selection undoubtedly provides valuable information and insight for a range of engineers, scientists, researchers and consultants involved in the planning, design and operation of underground and surface mines.

**Public Transit Planning and Operation** Avishai Ceder, 2016-03-09 Addresses the Challenges Facing Public Transport Policy Makers and Operators. Public Transit Planning and Operation: Modeling Practice and Behavior, Second Edition offers new solutions for delivering both better services and greater efficiency solutions which have been developed and tested by the author in over thirty years of research work with mass transit policy makers and operators all over the world. It bridges the worlds of practice and research and academia, provides an overview and a critique of currently used operational planning methods and furnishes innovative practical techniques and modeling. Improve Service Performance and Successfully Manage the Costs of Operation. This new edition brings in new material on timetabling and vehicle scheduling with different vehicle sizes, new methods of designing transit route networks, analysis of transit coordination and connectivity, behavioral aspects of passengers including when making transfers and innovative methods related to automation and optimization which can be used in real time to significantly improve service reliability. Combines academic research with real world project experience. Focuses on issues encountered in practice. Provides unique coverage of the field. Public Transit Planning and Operation: Modeling Practice and Behavior, Second Edition incorporates a series of themes and new ways of thinking about planning and operation. Bridging the gap between theory and application, this text outlines the factors affecting public transport services, addresses common

problems and offers practical solutions for improvement *Water Resources Systems Planning and Management* Daniel P. Loucks, Eelco van Beek, 2005 A variety of water resources system models have been developed which are designed to improve the planning and management of water resources to ensure better integration and sustainability in order to meet socio economic and environmental objectives This publication examines the use of modelling systems in support of water resources planning and management drawing on practical experience from case studies of water resources system planning development and management projects worldwide

**Fuzzy Logic in Management** Christer Carlsson, Mario Fedrizzi, Robert Fuller, 2012-12-06 Fuzzy Logic in Management demonstrates that difficult problems and changes in the management environment can be more easily handled by bringing fuzzy logic into the practice of management This explicit theme is developed through the book as follows Chapter 1 Management and Intelligent Support Technologies is a short survey of management leadership and what can be gained from support technologies Chapter 2 Fuzzy Sets and Fuzzy Logic provides a short introduction to fuzzy sets fuzzy relations the extension principle fuzzy implications and linguistic variables Chapter 3 Group Decision Support Systems deals with group decision making and discusses methods for supporting the consensus reaching processes Chapter 4 Fuzzy Real Options for Strategic Planning summarizes research where the fuzzy real options theory was implemented as a series of models These models were thoroughly tested on a number of real life investments and validated in 2001 Chapter 5 Soft Computing Methods for Reducing the Bullwhip Effect summarizes research work focused on the demand fluctuations in supply chains The program enhanced existing theoretical frameworks with fuzzy logic modeling Chapter 6 Knowledge Management outlines the collection storing transfer and management of knowledge using fuzzy logic The principles are worked out in detail with software agents Chapter 7 Mobile Technology Application introduces various applications including empirical facts and how mobile technology can be supported with software agents Implicitly the book develops themes that successful companies should use to 1 master effectiveness and quality in both the details and the whole 2 build on and work with flexibility and 3 support continuous learning in both the organizational and the individual level

**Kybernetika**, 1999 *Book of Abstracts from 9th International Scientific Conference on Advances in Mechanical Engineering* Mihály Csüllög, Tamas Mankovits, 2023-11-21 The 9th International Scientific Conference on Advances in Mechanical Engineering ISCAME November 9 10 2023 Debrecen Hungary was organized by the Department of Mechanical Engineering Faculty of Engineering University of Debrecen and the Working Commission of Mechanical Engineering Specialized Committee in Engineering Regional Committee in Debrecen Hungarian Academy of Sciences The main goal of ISCAME is to yearly bring together engineers scientists researchers practitioners from academia and industry to present their original works and share experiences regarding all aspects of mechanical engineering sciences

**Civil Engineering and Urban Planning IV** Yuan-Ming Liu, Dong Fu, Zhen-Xin Tong, Zhi-Qing Bao, Bin Tang, 2016-10-28 Civil Engineering and Urban Planning IV includes the papers presented at the 4th International Conference on Civil Engineering

and Urban Planning CEUP 2015 Beijing China 25 27 July 2015 The contributions from experts and world renowned scientists cover a wide variety of topics Civil engineering Architecture and urban planning Transpor The Future of Transportation Planning Rongfang Liu,2003 **Frontiers of Green Building, Materials and Civil Engineering** Dong Ye Sun,Wen Pei Sung,Ran Chen,2011-07-27 Selected peer reviewed papers from the 2011 International Conference on Green Building Materials and Civil Engineering GBMCE 2011 Shangri La China August 22 23 2011 **Journal of Urban Planning and Development** ,2002 *American Book Publishing Record* ,1997-09 *Journal of Statistical Planning and Inference* North-Holland Publishing Company,2002

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