

STUDIES IN *FUZZINESS*  
AND *SOFT COMPUTING*

# in Fuzziness and Soft Computing

Christer Carlsson  
Robert Fullér

## Fuzzy Reasoning in Decision Making and Optimization



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# Fuzzy Reasoning In Decision Making And Optimization

**Bernadette Bouchon-Meunier, Julio  
Gutierrez-Rios, Luis Magdalena, Ronald  
R. Yager**

## **Fuzzy Reasoning In Decision Making And Optimization:**

*Fuzzy Reasoning in Decision Making and Optimization* Christer Carlsson, Robert Fuller, 2001-10-09 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

*Fuzzy Logic for Planning and Decision Making* Freerk A. Lootsma, 2013-03-14 This book starts with the basic concepts of Fuzzy Logic the membership function the intersection and the union of fuzzy sets fuzzy numbers and the extension principle underlying the algorithmic operations Several chapters are devoted to applications of Fuzzy Logic in Operations Research PERT planning with uncertain activity durations Multi Criteria Decision Analysis MCDA with vague preferential statements and Multi Objective Optimization MOO with weighted degrees of satisfaction New items are Fuzzy PERT using activity durations with triangular membership functions Fuzzy SMART with a sensitivity analysis based upon Fuzzy Logic the Additive and the Multiplicative AHP with a similar feature ELECTRE using the ideas of the AHP and SMART and a comparative study of the ideal point methods for MOO Finally earlier studies of colour perception illustrate the attempts to find a physiological basis for the set theoretical and the algorithmic operations in Fuzzy Logic The last chapter also discusses some key issues in linguistic categorization and the prospects of Fuzzy Logic as a multi disciplinary research activity Audience Researchers and students working in applied mathematics operations research management science business administration econometrics industrial engineering information systems artificial intelligence mathematical psychology and psychophysics

*Fuzzy Expert Systems and Fuzzy Reasoning* William Siler, James J. Buckley, 2005-02-22 Hier lernen Sie Expertensysteme auf der Basis von Fuzzy Logic zu konstruieren die sich für den praktischen Einsatz eignen Expertensysteme werden zunächst allgemein definiert und die zugrundeliegende Mathematik wird eingeführt Regelbasierte Systeme werden gründlicher besprochen als in jedem anderen Buch mit ähnlichem Thema Am

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**Modern Mathematics and Mechanics** Victor A. Sadovnichiy, Michael Z. Zgurovsky, 2018-11-29 In this book international expert authors provide solutions for modern fundamental problems including the complexity of computing of critical points for set valued mappings, the behaviour of solutions of ordinary differential equations, partial differential equations and difference equations or the development of an abstract theory of global attractors for multi valued impulsive dynamical systems. These abstract mathematical approaches are applied to problem solving in solid mechanics, hydro and aerodynamics, optimization, decision making theory and control theory. This volume is therefore relevant to mathematicians as well as engineers working at the interface of these fields.

**Multicriteria Decision Aid and Artificial Intelligence** Michael Doumpos, Evangelos Grigoroudis, 2013-02-01 Presents recent advances in both models and systems for intelligent decision making. Organisations often face complex decisions requiring the assessment of large amounts of data. In recent years Multicriteria Decision Aid (MCDA) and Artificial Intelligence (AI) techniques have been applied with considerable success to support decision making in a wide range of complex real world problems. The integration of MCDA and AI provides new capabilities relating to the structuring of complex decision problems in static and distributed environments. These include the handling of massive data sets, the modelling of ill structured information, the construction of advanced decision models and the development of efficient computational optimization algorithms for problem solving. This book covers a rich set of topics including intelligent decision support technologies, data mining, models for decision making, evidential reasoning, evolutionary multiobjective optimization, fuzzy modelling as well as applications in management and engineering. Multicriteria Decision Aid and Artificial Intelligence covers all of the recent advances in intelligent decision making. Includes a presentation of hybrid models and algorithms for preference modelling and optimisation problems. Provides illustrations of new intelligent technologies and architectures for decision making in static and distributed environments. Explores the general topics on preference modelling and learning along with the

coverage of the main techniques and methodologies and applications Is written by experts in the field This book provides an excellent reference tool for the increasing number of researchers and practitioners interested in the integration of MCDA and AI for the development of effective hybrid decision support methodologies and systems Academics and post graduate students in the fields of operational research artificial intelligence and management science or decision analysis will also find this book beneficial

*Intermediate Futures And Options: An Active Learning Approach* Cheng Few Lee, John C Lee, Alice C Lee, 2023-10-16 Futures and Options are concerned with the valuation of derivatives and their application to hedging and speculating investments This book contains 22 chapters and is divided into five parts Part I contains an overview including a general introduction as well as an introduction to futures options swaps and valuation theories Part II Forwards and Futures discusses futures valuation the futures market hedging strategies and various types of futures Part III Option Theories and Applications includes both the basic and advanced valuation of options and option strategies in addition to index and currency options Part IV Advanced Analyses of Options takes a look at higher level strategies used to quantitatively approach the analysis of options Part V Special Topics of Options and Futures covers the applications of more obscure and alternative methods in derivatives as well as the derivation of the Black Scholes Option Pricing Model This book applies an active interdisciplinary approach to presenting the material in other words three projects involving the use of real world financial data on derivative in addition to homework assignments are made available for students in this book

Soft Computing Evaluation Logic Jozo Dujmovic, 2018-10-16 A novel approach to decision engineering with a verified framework for modeling human reasoning Soft Computing Evaluation Logic provides an in depth examination of evaluation decision problems and presents comprehensive guidance toward the use of the Logic Scoring of Preference LSP method in modeling complex decision criteria Fully aligned with current developments in computational intelligence the discussion covers the design and use of LSP criteria for evaluation and comparison in diverse areas such as search engines medical conditions real estate space management habitat mitigation projects in ecology and land use and residential development suitability maps with versatile transfer to other similar decision modeling contexts Human decision making is rife with fuzziness imprecision uncertainty and half truths yet humans make evaluation decisions every day In this book such decision processes are observed analyzed and modeled The result is graded logic a soft computing mathematical infrastructure that provides both formal logic and semantic generalizations of classical Boolean logic Graded logic is used for logic aggregation in the context of evaluation models consistent with observable properties of human reasoning The LSP method based on graded logic and logic aggregation is a vital component of an industrial strength decision engineering framework Thus the book Provides detailed theoretical background for graded logic Provides a theory of logic aggregators Explains the LSP method for designing complex evaluation criteria and their use Shows techniques for evaluation comparison and selection of complex systems as well as the cost suitability analysis optimization sensitivity analysis tradeoff analysis and missingness tolerant

aggregation Includes a survey of available LSP software tools including ISEE ANSY and LSP NT With quantitative modeling of human reasoning novel approaches to modeling decision criteria and a verified decision engineering framework applicable to a broad array of applications this book is an invaluable resource for graduate students researchers and practitioners working within the decision engineering realm *Evolving Rule-Based Models* Plamen P. Angelov,2002-02-26 The idea about this book has evolved during the process of its preparation as some of the results have been achieved in parallel with its writing One reason for this is that in this area of research results are very quickly updated Another is possibly that a strong unchallenged theoretical basis in this field still does not fully exist From other hand the rate of innovation competition and demand from different branches of industry from biotech industry to civil and building engineering from market forecasting to civil aviation from robotics to emerging e commerce is increasingly pressing for more customised solutions based on learning consumers behaviour A highly interdisciplinary and rapidly innovating field is forming which focus is the design of intelligent self adapting systems and machines It is on the crossroads of control theory artificial and computational intelligence different engineering disciplines borrowing heavily from the biology and life sciences It is often called intelligent control soft computing or intelligent technology Some other branches have appeared recently like intelligent agents which migrated from robotics to different engineering fields data fusion knowledge extraction etc which are inherently related to this field The core is the attempts to enhance the abilities of the classical control theory in order to have more adequate flexible and adaptive models and control algorithms **Journal of Economic Literature** ,2002 **Intelligent Agents and Their Applications** Zhengxin Chen,Nikhil Ichalkaranje,2013-03-20 Intelligent agents are one of the most promising business tools in our information rich world An intelligent agent consists of a software system capable of performing intelligent tasks within a dynamic and unpredictable environment They can be characterised by various attributes including autonomous adaptive collaborative communicative mobile and reactive Many problems are not well defined and the information needed to make decisions is not available These problems are not easy to solve using conventional computing approaches Here the intelligent agent paradigm may play a major role in helping to solve these problems This book written for application researchers covers a broad selection of research results that demonstrate in an authoritative and clear manner the applications of agents within our information society *Applied Decision Support with Soft Computing* Xinghuo Yu,2012-12-06 Soft computing has provided sophisticated methodologies for the development of intelligent decision support systems Fast advances in soft computing technologies such as fuzzy logic and systems artificial neural networks and evolutionary computation have made available powerful problem representation and modelling paradigms and learning and optimisation mechanisms for addressing modern decision making issues This book provides a comprehensive coverage of up to date conceptual frameworks in broadly perceived decision support systems and successful applications Different from other existing books this volume predominately focuses on applied decision support with soft computing Areas covered

include planning management finance and administration in both the private and public sectors

**Deep Learning Concepts in Operations Research** Biswadip Basu Mallik, Gunjan Mukherjee, Rahul Kar, Aryan Chaudhary, 2024-08-30 The model based approach for carrying out classification and identification of tasks has led to the pervading progress of the machine learning paradigm in diversified fields of technology Deep Learning Concepts in Operations Research looks at the concepts that are the foundation of this model based approach Apart from the classification process the machine learning ML model has become effective enough to predict future trends of any sort of phenomena Such fields as object classification speech recognition and face detection have sought extensive application of artificial intelligence AI and ML as well Among a variety of topics the book examines An overview of applications and computing devices Deep learning impacts in the field of AI Deep learning as state of the art approach to AI Exploring deep learning architecture for cutting edge AI solutions Operations research is the branch of mathematics for performing many operational tasks in other allied domains and the book explains how the implementation of automated strategies in optimization and parameter selection can be carried out by AI and ML Operations research has many beneficial aspects for decision making Discussing how a proper decision depends on several factors the book examines how AI and ML can be used to model equations and define constraints to solve problems and discover proper and valid solutions more easily It also looks at how automation plays a significant role in minimizing human labor and thereby minimizes overall time and cost

**The Dynamics of Judicial Proof** Marilyn MacCrimmon, Peter Tillers, 2012-12-06 Fact finding in judicial proceedings is a dynamic process This collection of papers considers whether computational methods or other formal logical methods developed in disciplines such as artificial intelligence decision theory and probability theory can facilitate the study and management of dynamic evidentiary and inferential processes in litigation The papers gathered here have several epicenters including i the dynamics of judicial proof ii the relationship between artificial intelligence or formal analysis and common sense iii the logic of factual inference including a the relationship between causality and inference and b the relationship between language and factual inference iv the logic of discovery including the role of abduction and serendipity in the process of investigation and proof of factual matters and v the relationship between decision and inference

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acquisitions financial analysis of engineering enterprises forecast demand for mobile satellite services modeling financial portfolios and economics      **Machine Learning and Metaheuristics: Methods and Analysis** Uma N. Dulhare, Essam

Halim Houssein, 2023-11-01 This book takes a balanced approach between theoretical understanding and real time applications All the topics included real world problems which show how to explore build evaluate and optimize machine learning models fusion with metaheuristic algorithms Optimization algorithms classified into two broad categories as deterministic and probabilistic algorithms The content of book elaborates optimization algorithms such as particle swarm optimization ant colony optimization whale search algorithm and cuckoo search algorithm      **Technologies for**

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Yager, 2013-03-20 Intelligent systems enhance the capacities made available by the internet and other computer based technologies This book is devoted to various aspects of the management of intelligent systems Particular attention is paid to situations in which the available information and data may be imprecise uncertain incomplete or of linguistic nature Various methods developed to manage such information are discussed in the context of several domains of application Topics included in the book include preference modelling and decision making learning clustering and data mining information retrieval The paradigm of computing with words is also addressed      New Learning Paradigms in Soft Computing Lakhmi C.

Jain, Janusz Kacprzyk, 2013-06-05 Learning is a key issue in the analysis and design of all kinds of intelligent systems In recent time many new paradigms of automated machine learning have been proposed in the literature Soft computing that has proved to be an effective and efficient tool in so many areas of science and technology seems to offer new qualities in the realm of machine learning too The purpose of this volume is to present some new learning paradigms that have been triggered or at least strongly influenced by soft computing tools and techniques mainly related to neural networks fuzzy logic rough sets and evolutionary computations      **Data Mining, Rough Sets and Granular Computing** Tsau Young Lin, Yiyu Y.

Yao, Lotfi A. Zadeh, 2013-11-11 During the past few years data mining has grown rapidly in visibility and importance within information processing and decision analysis This is particularly true in the realm of e commerce where data mining is moving from a nice to have to a must have status In a different though related context a new computing methodology called granular computing is emerging as a powerful tool for the conception analysis and design of information intelligent systems In essence data mining deals with summarization of information which is resident in large data sets while granular computing plays a key role in the summarization process by drawing together points objects which are related through similarity proximity or functionality In this perspective granular computing has a position of centrality in data mining Another methodology which has high relevance to data mining and plays a central role in this volume is that of rough set theory Basically rough set theory may be viewed as a branch of granular computing However its applications to data mining have predated that of granular computing      **Technologies for Constructing Intelligent Systems 1** Bernadette



Bouchon-Meunier, Julio Gutierrez-Rios, Luis Magdalena, Ronald R. Yager, 2013-03-20 Intelligent systems enhance the capacities made available by the internet and other computer based technologies This book deals with the theory behind the solutions to difficult problems in the construction of intelligent systems Particular attention is paid to situations in which the available information and data may be imprecise uncertain incomplete or of linguistic nature Various methodologies for these cases are discussed among which are probabilistic possibilistic fuzzy logical evidential and network based frameworks One purpose of the book is to consider how these methods can be used cooperatively Topics included in the book include fundamental issues in uncertainty the rapidly emerging discipline of information aggregation neural networks bayesian networks and other network methods as well as logic based systems

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