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Foundations of Fuzzy Logic and Soft Computing Modeling Uncertainty with Fuzzy Logic
Computing Statistics under Interval and Fuzzy Uncertainty Flexible and Generalized Uncertainty
Optimization How Uncertainty-Related Ideas Can Provide Theoretical Explanation For Empirical
Dependencies Efficient Learning Machines Insight into Fuzzy Modeling Business and Consumer
Analytics: New Ideas Petr Hájek on Mathematical Fuzzy Logic Multiple Criteria Decision
Analysis Advanced Computational Intelligence Paradigms in Healthcare 3 On Fuzziness

2023-01-03


























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























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
















Encyclopedia of Artificial Intelligence Granular, Fuzzy, and Soft Computing Electric Distribution

















Network Planning Flexible Approaches in Data, Information and Knowledge Management

Onboard Hospitality Short-Term Study Abroad 2007 Yearbook of International Organizations

2014-2015, Volumes 1a & 1b (Set)                         

Annuaire Des Organisations Internationales                 

Foundations of Fuzzy Logic and Soft Computing

2007-07-02

this book comprises a selection of papers from ifsa 2007 on new methods and theories that contribute to the foundations of fuzzy logic and soft computing coverage includes the application of fuzzy logic and soft computing in flexible querying philosophical and human scientific aspects of soft computing search engine and information processing and retrieval as well as intelligent agents and knowledge ant colony

Modeling Uncertainty with Fuzzy Logic

2009-04-08

the world we live in is pervaded with uncertainty and imprecision is it likely to rain this afternoon should i take an umbrella with me will i be able to find parking near the campus should i go by bus such simple questions are a c mon occurrence in our daily lives less simple examples

what is the probability that the price of oil will rise sharply in the near future should i buy chevron stock what are the chances that a bailout of gm ford and chrysler will not succeed what will be the consequences note that the examples in question involve both uncertainty and imprecision in the real world this is the norm rather than exception there is a deep seated tradition in science of employing probability theory and only probability theory to deal with uncertainty and imprecision the monopoly of probability theory came to an end when fuzzy logic made its debut however this is by no means a widely accepted view the belief persists especially within the probability community that probability theory is all that is needed to deal with uncertainty to quote a prominent bayesian professor dennis lindley the only satisfactory description of uncertainty is probability

Computing Statistics under Interval and Fuzzy Uncertainty

2011-11-17

in many practical situations we are interested in statistics characterizing a population of objects e.g. in the mean height of people from a certain area most algorithms for estimating such statistics

assume that the sample values are exact in practice sample values come from measurements and measurements are never absolutely accurate sometimes we know the exact probability distribution of the measurement inaccuracy but often we only know the upper bound on this inaccuracy in this case we have interval uncertainty e g if the measured value is 1.0 and inaccuracy is bounded by 0.1 then the actual unknown value of the quantity can be anywhere between 0.9 and 1.1 in other cases the values are expert estimates and we only have fuzzy information about the estimation inaccuracy this book shows how to compute statistics under such interval and fuzzy uncertainty the resulting methods are applied to computer science optimal scheduling of different processors to information technology maintaining privacy to computer engineering design of computer chips and to data processing in geosciences radar imaging and structural mechanics

Flexible and Generalized Uncertainty Optimization

2017-01-17

this book presents the theory and methods of flexible and generalized uncertainty optimization

particularly it describes the theory of generalized uncertainty in the context of optimization modeling the book starts with an overview of flexible and generalized uncertainty optimization it covers uncertainties that are both associated with lack of information and that more general than stochastic theory where well defined distributions are assumed starting from families of distributions that are enclosed by upper and lower functions the book presents construction methods for obtaining flexible and generalized uncertainty input data that can be used in a flexible and generalized uncertainty optimization model it then describes the development of such a model in detail all in all the book provides the readers with the necessary background to understand flexible and generalized uncertainty optimization and develop their own optimization model

How Uncertainty-Related Ideas Can Provide Theoretical Explanation For Empirical Dependencies

2021-04-21

this book shows how to provide uncertainty related theoretical justification for empirical

dependencies on the examples from numerous application areas such justifications are needed since without them practitioners may be reluctant to use these dependencies purely empirical formulas often turn out to hold only in some cases examples of new theoretical explanations range from fundamental physics quark confinement galaxy superclusters etc and geophysics earthquake analysis to transportation and electrical engineering to computer science image processing quantum computing and pedagogy equity effect of repetitions the book is useful to students and specialists in the corresponding areas most of the examples use common general techniques so the book is also useful to practitioners and researchers in other application areas who look for ways to provide theoretical justifications for their areas empirical dependencies

Efficient Learning Machines

2015-04-27

machine learning techniques provide cost effective alternatives to traditional methods for extracting underlying relationships between information and data and for predicting future events by processing existing information to train models efficient learning machines explores the

major topics of machine learning including knowledge discovery classifications genetic algorithms neural networking kernel methods and biologically inspired techniques mariette awad and rahul khanna s synthetic approach weaves together the theoretical exposition design principles and practical applications of efficient machine learning their experiential emphasis expressed in their close analysis of sample algorithms throughout the book aims to equip engineers students of engineering and system designers to design and create new and more efficient machine learning systems readers of efficient learning machines will learn how to recognize and analyze the problems that machine learning technology can solve for them how to implement and deploy standard solutions to sample problems and how to design new systems and solutions advances in computing performance storage memory unstructured information retrieval and cloud computing have coevolved with a new generation of machine learning paradigms and big data analytics which the authors present in the conceptual context of their traditional precursors awad and khanna explore current developments in the deep learning techniques of deep neural networks hierarchical temporal memory and cortical algorithms nature suggests sophisticated learning techniques that deploy simple rules to generate highly intelligent and organized behaviors with adaptive evolutionary and distributed properties the authors examine the most popular biologically inspired algorithms together with a sample application to distributed datacenter management they

also discuss machine learning techniques for addressing problems of multi objective optimization in which solutions in real world systems are constrained and evaluated based on how well they perform with respect to multiple objectives in aggregate two chapters on support vector machines and their extensions focus on recent improvements to the classification and regression techniques at the core of machine learning

Insight into Fuzzy Modeling

2016-03-15

provides a unique and methodologically consistent treatment of various areas of fuzzy modeling and includes the results of mathematical fuzzy logic and linguistics this book is the result of almost thirty years of research on fuzzy modeling it provides a unique view of both the theory and various types of applications the book is divided into two parts the first part contains an extensive presentation of the theory of fuzzy modeling the second part presents selected applications in three important areas control and decision making image processing and time series analysis and forecasting the authors address the consistent and appropriate treatment of the notions of fuzzy sets

and fuzzy logic and their applications they provide two complementary views of the methodology which is based on fuzzy if then rules the first more traditional method involves fuzzy approximation and the theory of fuzzy relations the second method is based on a combination of formal fuzzy logic and linguistics a very important topic covered for the first time in book form is the fuzzy transform f transform applications of this theory are described in separate chapters and include image processing and time series analysis and forecasting all of the mentioned components make this book of interest to students and researchers of fuzzy modeling as well as to practitioners in industry features provides a foundation of fuzzy modeling and proposes a thorough description of fuzzy modeling methodology emphasizes fuzzy modeling based on results in linguistics and formal logic includes chapters on natural language and approximate reasoning fuzzy control and fuzzy decision making and image processing using the f transform discusses fuzzy if then rules for approximating functions fuzzy cluster analysis and time series forecasting insight into fuzzy modeling is a reference for researchers in the fields of soft computing and fuzzy logic as well as undergraduate master and ph d students vilém novák d sc is full professor and director of the institute for research and applications of fuzzy modeling university of ostrava czech republic irina Perfilieva ph d is full professor senior scientist and head of the department of theoretical research at the institute for research and applications of fuzzy modeling university of ostrava czech republic

antonín dvorák ph d is associate professor and senior scientist at the institute for research and applications of fuzzy modeling university of ostrava czech republic

Business and Consumer Analytics: New Ideas

2019-05-30

this two volume handbook presents a collection of novel methodologies with applications and illustrative examples in the areas of data driven computational social sciences throughout this handbook the focus is kept specifically on business and consumer oriented applications with interesting sections ranging from clustering and network analysis meta analytics memetic algorithms machine learning recommender systems methodologies parallel pattern mining and data mining to specific applications in market segmentation travel fashion or entertainment analytics a must read for anyone in data analytics marketing behavior modelling and computational social science interested in the latest applications of new computer science methodologies the chapters are contributed by leading experts in the associated fields the chapters cover technical aspects at different levels some of which are introductory and could be used for

teaching some chapters aim at building a common understanding of the methodologies and recent application areas including the introduction of new theoretical results in the complexity of core problems business and marketing professionals may use the book to familiarize themselves with some important foundations of data science the work is a good starting point to establish an open dialogue of communication between professionals and researchers from different fields together the two volumes present a number of different new directions in business and customer analytics with an emphasis in personalization of services the development of new mathematical models and new algorithms heuristics and metaheuristics applied to the challenging problems in the field sections of the book have introductory material to more specific and advanced themes in some of the chapters allowing the volumes to be used as an advanced textbook clustering proximity graphs pattern mining frequent itemset mining feature engineering network and community detection network based recommending systems and visualization are some of the topics in the first volume techniques on memetic algorithms and their applications to business analytics and data science are surveyed in the second volume applications in team orienteering competitive facility location and visualization of products and consumers are also discussed the second volume also includes an introduction to meta analytics and to the application areas of fashion and travel analytics overall the two volume set helps to describe some fundamentals acts as a bridge between different disciplines

and presents important results in a rapidly moving field combining powerful optimization techniques allied to new mathematical models critical for personalization of services academics and professionals working in the area of business analytics data science operations research and marketing will find this handbook valuable as a reference students studying these fields will find this handbook useful and helpful as a secondary textbook

Petr Hájek on Mathematical Fuzzy Logic

2014-09-23

this volume celebrates the work of petr hájek on mathematical fuzzy logic and presents how his efforts have influenced prominent logicians who are continuing his work the book opens with a discussion on hájek s contribution to mathematical fuzzy logic and with a scientific biography of him progresses to include two articles with a foundation flavour that demonstrate some important aspects of hájek s production namely a paper on the development of fuzzy sets and another paper on some fuzzy versions of set theory and arithmetic articles in the volume also focus on the treatment of vagueness building connections between hájek s favorite fuzzy logic and linguistic

models of vagueness other articles introduce alternative notions of consequence relation namely the preservation of truth degrees which is discussed in a general context and the differential semantics for the latter a surprisingly strong standard completeness theorem is proved another contribution also looks at two principles valid in classical logic and characterize the three main t norm logics in terms of these principles other articles with an algebraic flavour offer a summary of the applications of lattice ordered groups to many valued logic and to quantum logic as well as an investigation of prelinearity in varieties of pointed lattice ordered algebras that satisfy a weak form of distributivity and have a very weak implication the last part of the volume contains an article on possibilistic modal logics defined over mtl chains a topic that hájek discussed in his celebrated work metamathematics of fuzzy logic and another one where the authors besides offering unexpected premises such as proposing to call hájek s basic fuzzy logic hl instead of bl propose a very weak system called sl as a candidate for the role of the really basic fuzzy logic the paper also provides a generalization of the prelinearity axiom which was investigated by hájek in the context of fuzzy logic

Multiple Criteria Decision Analysis

2016-02-18

in two volumes this new edition presents the state of the art in multiple criteria decision analysis mcda reflecting the explosive growth in the field seen during the last several years the editors not only present surveys of the foundations of mcda but look as well at many new areas and new applications individual chapter authors are among the most prestigious names in mcda research and combined their chapters bring the field completely up to date part i of the book considers the history and current state of mcda with surveys that cover the early history of mcda and an overview that discusses the pre theoretical assumptions of mcda part ii then presents the foundations of mcda with individual chapters that provide a very exhaustive review of preference modeling along with a chapter devoted to the axiomatic basis of the different models that multiple criteria preferences part iii looks at outranking methods with three chapters that consider the electre methods promethee methods and a look at the rich literature of other outranking methods part iv on multiattribute utility and value theories maut presents chapters on the fundamentals of this approach the very well known uta methods the analytic hierarchy

process ahp and its more recent extension the analytic network process anp as well as a chapter on macbeth measuring attractiveness by a categorical based evaluation technique part v looks at non classical mcda approaches with chapters on risk and uncertainty in mcda the decision rule approach to mcda the fuzzy integral approach the verbal decision methods and a tentative assessment of the role of fuzzy sets in decision analysis part vi on multiobjective optimization contains chapters on recent developments of vector and set optimization the state of the art in continuous multiobjective programming multiobjective combinatorial optimization fuzzy multicriteria optimization a review of the field of goal programming interactive methods for solving multiobjective optimization problems and relationships between mcda and evolutionary multiobjective optimization emo part vii on applications selects some of the most significant areas including contributions of mcda in finance energy planning problems telecommunication network planning and design sustainable development and portfolio analysis finally part viii on mcdm software presents well known mcda software packages

Advanced Computational Intelligence Paradigms in Healthcare -

3

2008-06-26

this volume details the latest state of the art research on computational intelligence paradigms in healthcare in the intelligent agent environment the book presents seven chapters selected from the rapidly growing application areas of computational intelligence to healthcare systems these include intelligent synthetic characters man machine interface menu generators analysis of user acceptance pictures archiving and communication systems

On Fuzziness

2012-12-15

the notion of fuzziness stands as one of the really new concepts that have recently enriched the world of science science grows not only through technical and formal advances on one side and useful applications on the other side but also as consequence of the introduction and assimilation of

new concepts in its corpus these in turn produce new developments and applications and this is what fuzziness one of the few new concepts arisen in the xx century has been doing so far this book aims at paying homage to professor lotfi a zadeh the father of fuzzy logic and also at giving credit to his exceptional work and personality in a way this is reflected in the variety of contributions collected in the book in some of them the authors chose to speak of personal meetings with lotfi in others they discussed how certain papers of zadeh were able to open for them a new research horizon some contributions documented results obtained from the author s after taking inspiration from a particular idea of zadeh thus implicitly acknowledging him finally there are contributions of several third generation fuzzysists or softies who were firstly led into the world of fuzziness by a disciple of lotfi zadeh who following his example took care of opening for them a new road in science rudolf seising is adjoint researcher at the european centre for soft computing in mieres asturias spain enric trillas and claudio moraga are emeritus researchers at the european centre for soft computing mieres asturias spain settimo termini is professor of theoretical computer science at the university of palermo italy and affiliated researcher at the european centre for soft computing mieres asturias spain

Encyclopedia of Artificial Intelligence

2009-01-01

this book is a comprehensive and in depth reference to the most recent developments in the field covering theoretical developments techniques technologies among others provided by publisher

Granular, Fuzzy, and Soft Computing

2023-03-29

the first edition of the encyclopedia of complexity and systems science ecss 2009 presented a comprehensive overview of granular computing grc broadly divided into several categories granular computing from rough set theory granular computing in database theory granular computing in social networks granular computing and fuzzy set theory grid cloud computing as well as general issues in granular computing in 2011 the formal theory of grc was established providing an adequate infrastructure to support revolutionary new approaches to computer data

science including the challenges presented by so called big data for this volume of ecss second edition many entries have been updated to capture these new developments together with new chapters on such topics as data clustering outliers in data mining qualitative fuzzy sets and information flow analysis for security applications granulations can be seen as a natural and ancient methodology deeply rooted in the human mind many daily things are routinely granulated into sub things the topography of earth is granulated into hills plateaus etc space and time are granulated into infinitesimal granules and a circle is granulated into polygons of infinitesimal sides such granules led to the invention of calculus topology and non standard analysis formalization of general granulation was difficult but as shown in this volume great progress has been made in combing discrete and continuous mathematics under one roof for a broad range of applications in data science

Electric Distribution Network Planning

2018-04-09

this book highlights the latest research advances in the planning and management of electric

distribution networks it addresses various aspects of distribution network management including planning operation customer engagement and technology accommodation given the importance of electric distribution networks in power delivery systems effectively planning and managing them are vital to satisfying technical economic and customer requirements a new planning and management philosophy techniques and methods are essential to handling uncertainties associated with the integration of renewable based distributed generation demand forecast and customer needs this book covers topics on managing the capacity of distribution networks while also addressing the future needs of electric systems the efficient and economical operation of distribution networks is an essential aspect of ensuring the effective use of resources accordingly this book addresses operation and control approaches and techniques suitable for future distribution networks

Flexible Approaches in Data, Information and Knowledge Management

2013-09-12

this volume showcases contributions from internationally known researchers in the field of information management most of the approaches presented here make use of fuzzy logic introduced by Lotfi A. Zadeh almost 50 years ago which constitute a powerful tool to model and handle gradual concepts what all of these contributions have in common is placing the user at the center of the information system be it for helping him/her to query a data set to handle imperfect information or to discover useful knowledge from a massive collection of data researchers working in data and knowledge management will greatly benefit from this collection of up to date studies this may be also an invaluable source of information for postgraduate students interested in advanced information management techniques

Onboard Hospitality

2006

not all students have the inclination or the time to spend an entire school year overseas this updated guide describes academic volunteer and language programs offered in the summer or a few weeks during the school year research more than 1 900 semester long programs in this

comprehensive guide

Short-Term Study Abroad 2007

2007

volume 1 a and b covers international organizations throughout the world comprising their aims activities and events

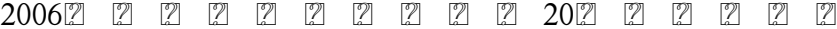
Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)

2014-06-16





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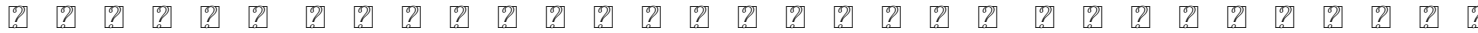
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2007-02



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2000-08



2013-06-20



2013-11-05



2020-02



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