

STUDIES IN FUZZINESS
AND SOFT COMPUTING

Studies in Fuzziness and Soft Computing

James J. Buckley
Leonard J. Jowers

Simulating Continuous Fuzzy Systems



Springer

Simulating Continuous Fuzzy Systems

Ying-ping Chen



Simulating Continuous Fuzzy Systems:

Simulating Continuous Fuzzy Systems James J. Buckley, Leonard J. Jowers, 2008-01-25 1 1 Introduction This book is written in two major parts The first part includes the introductory chapters consisting of Chapters 1 through 6 In part two Chapters 7-26 we present the applications This book continues our research into simulating fuzzy systems We started with investigating simulating discrete event fuzzy systems 7-13-14 These systems can usually be described as queuing networks Items transactions arrive at various points in the system and go into a queue waiting for service The service stations preceded by a queue are connected forming a network of queues and service until the transaction finally exits the system Examples considered included Chinese shops emergency rooms project networks bus routes etc Analysis of all of these systems depends on parameters like arrival rates and service rates These parameters are usually estimated from historical data These estimators are generally point estimators The point estimators are put into the model to compute system descriptors like mean time an item spends in the system or the expected number of transactions leaving the system per unit time We argued that these point estimators contain uncertainty not shown in the calculations Our estimators of these parameters become fuzzy numbers constructed by placing a set of confidence intervals one on top of another Using fuzzy number parameters in the model makes it into a fuzzy system The system descriptors we want time in system number leaving per unit time will be fuzzy numbers

Simulating Fuzzy Systems James J. Buckley, 2005-02-01 Simulating Fuzzy Systems demonstrates how many systems naturally become fuzzy systems and shows how regular crisp simulation can be used to estimate the alpha cuts of the fuzzy numbers used to analyze the behavior of the fuzzy system This monograph presents a concise introduction to fuzzy sets fuzzy logic fuzzy estimation fuzzy probabilities fuzzy systems theory and fuzzy computation It also presents a wide selection of simulation applications ranging from emergency rooms to machine shops to project scheduling showing the varieties of fuzzy systems

Fuzzy Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2017-02-22 There are a myriad of mathematical problems that cannot be solved using traditional methods The development of fuzzy expert systems has provided new opportunities for problem solving amidst uncertainties Fuzzy Systems Concepts Methodologies Tools and Applications is a comprehensive reference source on the latest scholarly research and developments in fuzzy rule based methods and examines both theoretical foundations and real world utilization of these logic sets Featuring a range of extensive coverage across innovative topics such as fuzzy logic rule based systems and fuzzy analysis this is an essential publication for scientists doctors engineers physicians and researchers interested in emerging perspectives and uses of fuzzy systems in various sectors

Fuzzy Database Modeling of Imprecise and Uncertain Engineering Information Zongmin Ma, 2008-09-12 Computer based information technologies have been extensively used to help industries manage their processes and information systems hereby come their nervous center More specially databases are designed to support the data storage processing and retrieval activities related to data

management in information systems Database management systems provide efficient task support and database systems are the key to implementing industrial data management Industrial data management requires database technique support Industrial applications however are typically data and knowledge intensive applications and have some unique characteristics that makes their management difficult Besides some new techniques such as Web artificial intelligence and etc have been introduced into industrial applications These unique characteristics and usage of new technologies have put many potential requirements on industrial data management which challenge today's database systems and promote their evolution Viewed from database technology information modeling in databases can be identified at two levels conceptual data modeling and logical database modeling This results in conceptual semantic data model and logical database model Generally a conceptual data model is designed and then the designed conceptual data model will be transformed into a chosen logical database schema Database systems based on logical database model are used to build information systems for data management Much attention has been directed at conceptual data modeling of industrial information systems Product data models for example can be viewed as a class of semantic data models i.e.

Fuzzy Probability and Statistics James J. Buckley, 2008-09-12 This book combines material from our previous books FP Fuzzy Probabilities New Approach and Applications Physica Verlag 2003 and FS Fuzzy Statistics Springer 2004 plus has about one third new results From FP we have material on basic fuzzy probability discrete fuzzy Poisson binomial and continuous uniform normal exponential fuzzy random variables From FS we included chapters on fuzzy estimation and fuzzy hypothesis testing related to means variances proportions correlation and regression New material includes fuzzy estimators for arrival and service rates and the uniform distribution with applications in fuzzy queueing theory Also new to this book is three chapters on fuzzy maximum entropy imprecise side conditions estimators producing fuzzy distributions and crisp discrete continuous distributions Other new results are 1 two chapters on fuzzy ANOVA one way and two way 2 random fuzzy numbers with applications to fuzzy Monte Carlo studies and 3 a fuzzy nonparametric estimator for the median

Rule-Based Evolutionary Online Learning Systems Martin V. Butz, 2006-01-04 Rule based evolutionary online learning systems often referred to as Michigan style learning classifier systems LCSs were proposed nearly thirty years ago Holland 1976 Holland 1977 originally calling them cognitive systems LCSs combine the strength of reinforcement learning with the generalization capabilities of genetic algorithms promising a flexible online generalizing solely reinforcement dependent learning system However despite several initial successful applications of LCSs and their interesting relations with machine learning and cognition understanding of the systems remained somewhat obscured Questions concerning learning complexity or convergence remained unanswered Performance in different problem types problem structures concept spaces and hypothesis spaces stayed nearly unpredictable This book has the following three major objectives 1 to establish a facetwise theory approach for LCSs that promote system analysis understanding and design 2 to analyze evaluate and enhance the XCS classifier system Wilson 1995 by the means of the facetwise approach establishing a

fundamental XCS learning theory 3 to identify both the major advantages of an LCS based learning approach as well as the most promising potential application areas Achieving these three objectives leads to a rigorous understanding of LCS functioning that enables the successful application of LCSs to diverse problem types and problem domains The quantitative analysis of XCS shows that the inter tive evolutionary based online learning mechanism works machine learning competitively yielding a low order polynomial learning complexity Moreover the facetwise analysis approach facilitates the successful design of more vanced LCSs including Holland s originally envisioned cognitive systems Martin V

Cyber-Physical Systems: Intelligent Models and Algorithms Alla G. Kravets,Alexander A. Bolshakov,Maxim Shcherbakov,2022-03-29 This book is devoted to intelligent models and algorithms as the core components of cyber physical systems The complexity of cyber physical systems developing and deploying requires new approaches to its modelling and design Presents results in the field of modelling technologies that leverage the exploitation of artificial intelligence including artificial general intelligence AGI and weak artificial intelligence Provides scientific practical and methodological approaches based on bio inspired methods fuzzy models and algorithms predictive modelling computer vision and image processing The target audience of the book are practitioners enterprises representatives scientists PhD and Master students who perform scientific research or applications of intelligent models and algorithms in cyber physical systems for various domains *Soft Computing in Web Information Retrieval* Enrique Herrera-Viedma,Gabriella Pasi,Fabio Crestani,2008-08-15 This book presents recent studies on the application of Soft Computing techniques in information access on the World Wide Web The book is divided in four parts reflecting the areas of research of the presented works such as Document Classification Semantic Web Web Information Retrieval and Web Applications The text demonstrates that Web Information Retrieval is a stimulating area of research where Soft Computing technologies can be applied satisfactorily *Extending the Scalability of Linkage Learning Genetic Algorithms* Ying-ping Chen,2006 Genetic algorithms GAs are powerful search techniques based on principles of evolution and widely applied to solve problems in many disciplines However most GAs employed in practice nowadays are unable to learn genetic linkage and suffer from the linkage problem The linkage learning genetic algorithm LLGA was proposed to tackle the linkage problem with several specially designed mechanisms While the LLGA performs much better on badly scaled problems than simple GAs it does not work well on uniformly scaled problems as other competent GAs Therefore we need to understand why it is so and need to know how to design a better LLGA or whether there are certain limits of such a linkage learning process This book aims to gain better understanding of the LLGA in theory and to improve the LLGA s performance in practice It starts with a survey of the existing genetic linkage learning techniques and describes the steps and approaches taken to tackle the research topics including using promoters developing the convergence time model and adopting subchromosomes **Fuzzy Transportation and Transshipment Problems** Amarpreet Kaur,Janusz Kacprzyk,Amit Kumar,2019-10-25 This book presents a novel approach to the formulation and

solution of three classes of problems the fully fuzzy transportation problem the fully fuzzy transshipment problem and fully fuzzy solid transportation problem It points out some limitations of the existing formulations and approaches indicating some possible conceptually and algorithmically attractive solutions to alleviate them In particular the book describes new conceptual and algorithmic solutions for finding the fuzzy optimal solutions of the single objective fully fuzzy transportation problems the fully fuzzy transshipment problems and the fully fuzzy solid transportation problems Moreover based on the novel concepts and solutions proposed by combining the concept of a fully fuzzy solid transportation problem and a fully fuzzy transshipment problem it describes a new class of problems i e the fully fuzzy solid trans shipment problem together with its fuzzy linear programming formulation and some methods to find its fuzzy optimal solution The book offers the readers a timely piece of literature in the field of fuzzy linear programming and is expected to act as a source of inspiration for future research and applications

Soft Computing in Ontologies and Semantic Web Zongmin Ma,2007-08-13 This book covers in a great depth the fast growing topic of tools techniques and applications of soft computing e g fuzzy logic genetic algorithms neural networks rough sets Bayesian networks and other probabilistic techniques in the ontologies and Semantic Web How components of the Semantic Web like the RDF Description Logics ontologies can be covered with a soft computing focus is shown The book aims to provide a single account of current studies in soft computing approaches to the ontologies and the Semantic Web The objective of the book is to provide the state of the art information to researchers practitioners and graduate students of the Web intelligence and at the same time serving the information technology professional faced with non traditional applications that make the application of conventional approaches difficult or impossible

Mathematics of Uncertainty Hans Bandemer,2008-01-25 Mathematics of Uncertainty provides the basic ideas and foundations of uncertainty covering the fields of mathematics in which uncertainty variability imprecision and fuzziness of data are of importance This introductory book describes the basic ideas of the mathematical fields of uncertainty from simple interpolation to wavelets from error propagation to fuzzy sets and neural networks The book presents the treatment of problems of interpolation and approximation as well as observation fuzziness which can essentially influence the preciseness and reliability of statements on functional relationships The notions of randomness and probability are examined as a model for the variability of observation and measurement results Besides these basic ideas the book also presents methods of qualitative data analysis such as cluster analysis and classification and of evaluation of functional relationships such as regression analysis and quantitative fuzzy data analysis

Fuzzy Applications in Industrial Engineering Cengiz Kahraman,2007-05-31 Industrial Engineering IE is concerned with the design improvement and installation of integrated systems of people material equipment and energy Industrial engineers face many problems with incomplete and vague information in these systems since the characteristics of these problems often require this kind of information Fuzzy sets approaches are usually most appropriate when human evaluations and the modeling of human knowledge are needed IE brings a significant number of

applications of fuzzy set theory After an introductory chapter explaining the recent status of fuzzy sets in IE this volume involves application chapters on the major seven areas of IE to which fuzzy set theory can contribute These major application areas are Control and Reliability Engineering Economics and Investment Analysis Group and Multi criteria Decision making Human Factors Engineering and Ergonomics Manufacturing Systems and Technology Management Optimization Techniques and Statistical Decision making Under these major areas every chapter includes didactic numerical applications The authors Among many authors in this book some examples are H J Zimmermann Janusz Kacprzyk Hideo Tanaka Waldemar Karwowski F Herrera C Kolski P Paul Wang E Herrera Viedma Hung T Nguyen Vladik Kreinovich Jose L Verdegay Tomoe Entani Nikos Tsoouveloudis F Jimenez

Towards a New Evolutionary Computation Jose A. Lozano, 2006-01-12 Estimation of Distribution Algorithms EDAs are a set of algorithms in the Evolutionary Computation EC field characterized by the use of explicit probability distributions in optimization Contrarily to other EC techniques such as the broadly known Genetic Algorithms GAs in EDAs the crossover and mutation operators are substituted by the sampling of a distribution previously learnt from the selected individuals EDAs have experienced a high development that has transformed them into an established discipline within the EC field This book attracts the interest of new researchers in the EC field as well as in other optimization disciplines and that it becomes a reference for all of us working on this topic The twelve chapters of this book can be divided into those that endeavor to set a sound theoretical basis for EDAs those that broaden the methodology of EDAs and finally those that have an applied objective

Fuzzy Quantifiers Ingo Glöckner, 2008-08-11 From a linguistic perspective it is quantification which makes all the difference between having no dollars and having a lot of dollars And it is the meaning of the quantifier most which eventually decides if Most Americans voted Kerry or Most Americans voted Bush as it stands Natural language NL quantifiers like all almost all many etc serve an important purpose because they permit us to speak about properties of collections as opposed to describing specific individuals only in technical terms quantifiers are a second order construct Thus the quantifying statement Most Americans voted Bush asserts that the set of voters of George W Bush comprises the majority of Americans while Bush sneezes only tells us something about a specific individual By describing collections rather than individuals quantifiers extend the expressive power of natural languages far beyond that of propositional logic and make them a universal communication medium Hence language heavily depends on quantifying constructions These often involve fuzzy concepts like tall and they frequently refer to fuzzy quantities in agreement like about ten almost all many etc In order to exploit this expressive power and make fuzzy quantification available to technical applications a number of proposals have been made how to model fuzzy quantifiers in the framework of fuzzy set theory These approaches usually reduce fuzzy quantification to a comparison of scalar or fuzzy cardinalities 197 132

Fuzzy Partial Differential Equations and Relational Equations Masoud Nikravesh, Lofti A. Zadeh, Victor Korotkiy, 2013-04-17 During last decade significant progress has been made in the oil industry by using soft computing technology Underlying this evolving technology there

have been ideas transforming the very language we use to describe problems with imprecision uncertainty and partial truth These developments offer exciting opportunities but at the same time it is becoming clearer that further advancements are confronted by fundamental problems The whole idea of how human process information lies at the core of the challenge There are already new ways of thinking about the problems within theory of perception based information This theory aims to understand and harness the laws of human perceptions to dramatically improve the processing of information A matured theory of perception based information is likely to be properly positioned to contribute to the solution of the problems and provide all the ingredients for a revolution in science technology and business In this context Berkeley Initiative in Soft Computing BISC University of California Berkeley from one side and Chevron Texaco from another formed a Technical Committee to organize a Meeting entitled State of the Art Assessment and New Directions for Research to understand the significance of the fields accomplishments new developments and future directions The Technical Committee selected and invited 15 scientists and industry experts as technical committee members from the related disciplines to participate in the Meeting which took place at the University of California Berkeley and March 15-17 2002

Differential Equations in Engineering Nupur Goyal, Piotr Kulczycki, Mangey Ram, 2021-09-07 *Differential Equations in Engineering Research and Applications* describes advanced research in the field of the applications of differential equations in engineering and the sciences and offers a sound theoretical background along with case studies It describes the advances in differential equations in real life for engineers Along with covering many advanced differential equations and explaining the utility of these equations the book provides a broad understanding of the use of differential equations to solve and analyze many real world problems such as calculating the movement or flow of electricity the motion of an object to and from like a pendulum or explaining thermodynamics concepts by making use of various mathematical tools techniques strategies and methods in applied engineering This book is written for researchers and academicians as well as for undergraduate and postgraduate students of engineering

Soft Computing for Problem Solving Kedar Nath Das, Jagdish Chand Bansal, Kusum Deep, Atulya K. Nagar, Ponnambalam Pathipooranam, Rani Chinnappa Naidu, 2019-11-27 This two volume book presents the outcomes of the 8th International Conference on Soft Computing for Problem Solving SocProS 2018 This conference was a joint technical collaboration between the Soft Computing Research Society Liverpool Hope University UK and Vellore Institute of Technology India and brought together researchers engineers and practitioners to discuss thought provoking developments and challenges in order to select potential future directions The book highlights the latest advances and innovations in the interdisciplinary areas of soft computing including original research papers on algorithms artificial immune systems artificial neural networks genetic algorithms genetic programming and particle swarm optimization and applications control systems data mining and clustering finance weather forecasting game theory business and forecasting applications It offers a valuable resource for both young and experienced researchers dealing with complex and intricate real world problems that

are difficult to solve using traditional methods Fuzzy Control Kai Michels, Frank Klawonn, Rudolf Kruse, Andreas Nürnberger, 2007-05-31 Fuzzy Control the revolutionary computer technology that is changing our world these and other headlines could be read when in the early 90 s news from Japan came over telling us about the success of fuzzy controllers The idea which was put into practice had been suggested by Lot A Zadeh in Berkeley in 1965 It had been developed and tested in some practical plications especially in Europe In Japan fuzzy control was celebrated as a technology re ecting the Japanese way of thinking by its unsharpness and plicitoverlappingofseveralstatements Anewtechnologyboomwaspredicted for Japan which would make Europe lose ground Consequently this news created unrest Research projects were initiated and development departments were engaged to translate fuzzy control into products Adversaries and supporters hurried up to inform themselves and intensely discussed whether the conventional or the fuzzy control were the better alternative Finally the excitement cooled down since in recent years fuzzy control was analyzed fromthe classical pointofview Thus amoreobjective evaluation of its strong and weak points was possible Furthermore it was shown how fuzzy systems could be put to use in the steering level which is the level above the control loop especially in interaction with other methods of soft computing and arti cial intelligence Based on these fundamentals the aim of this book is to support the convenient use of fuzzy controllers and fuzzy systems in the branch of control engineering and automation systems **Knowledge**

Representation Techniques Patrick Doherty, Witold Lukaszewicz, Andrzej Szalas, 2007-05-31 1 1 Background The basis for the material in this book centers around research done in an ongoing long term project which focuses on the development of highly au 1 tonomousunmannedaerialvehiclesystems Theactualplatformwhichserves as a case study for the research in this book will be described in detail later in this chapter Before doing that a brief background of the motivations hind this research will be provided One of the main research topics in the project is knowledge representation and reasoning and its use in Uav pl forms A very strong constraint has been placed on the nature of research done in the project where theoretical results to the greatest extent possible should serve as a basis for tractable reasoning mechanisms for use in a fully deployed autonomous Uav operating under soft real time constraints asso ated with the types of mission scenarios envisioned Considering that much of the work with knowledge representation in this context focuses on application domains where one can only hope for an incomplete characterization of such domains this methodological constraint has proven to be quite challenging since in essence the focus is on tractable approximate and nonmonotonic reasoning systems As is well known until recently nonmonotonic formalisms have had a notorious reputation for lack of tractable and scalable reasoning systems

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