

1999 IEEE International Fuzzy Systems Conference Proceedings

Proceedings



FUZZ-IEEE '99

August 22-25, 1999 Seoul, Korea

Eighth International Fuzzy Systems Conference 1999

IEEE Neural Networks Council



Eighth International Fuzzy Systems Conference 1999:

FUZZ-IEEE '99, 1999 Eighth International Work-Conference on Artificial and Natural Neural Networks Joan

Cabestany, 2005-05-30 We present in this volume the collection of finally accepted papers of the eighth edition of the IWANN conference International Work Conference on Artificial Neural Networks This biennial meeting focuses on the foundations theory models and applications of systems inspired by nature neural networks fuzzy logic and evolutionary systems Since the first edition of IWANN in Granada LNCS 540 1991 the Artificial Neural Network ANN community and the domain itself have matured and evolved Under the ANN banner we find a very heterogeneous scenario with a main interest and objective to better understand nature and beings for the correct elaboration of theories models and new algorithms For scientists engineers and professionals working in the area this is a very good way to get solid and competitive applications We are facing a real revolution with the emergence of embedded intelligence in many artificial systems systems covering diverse fields industry domotics leisure healthcare So we are convinced that an enormous amount of work must be and should be still done Many pieces of the puzzle must be built and placed into their proper positions offering us new and solid theories and models necessary tools for the application and praxis of these current paradigms The above mentioned concepts were the main reason for the subtitle of the IWANN 2005 edition Computational Intelligence and Bioinspired Systems The call for papers was launched several months ago addressing the following topics 1 Mathematical and theoretical methods in computational intelligence **Fuzzy Engineering and Operations Research** Bing-Yuan Cao, Xiang-Jun Xie, 2012-06-30

Fuzzy Engineering and Operations Research is the edited outcome of the 5th International Conference on Fuzzy Information and Engineering ICFIE2011 held during Oct 15 17 2011 in Chengdu China and by the 1st academic conference in establishment of Guangdong Province Operations Research Society GDORSC held on Oct 20 2011 in Guangzhou China The 5th ICFIE2011 built on the success of previous conferences and the GDORC first held are major Symposiums respectively for scientists engineers practitioners and Operation Research OR researchers presenting their updated results developments and applications in all areas of fuzzy information and engineering and OR It aims to strengthen relations between industry research laboratories and universities and to create a primary symposium for world scientists in Fuzziology and OR fields The book contains 62 papers and is divided into five main parts Fuzzy Optimization Logic and Information The mathematical Theory of Fuzzy Systems Fuzzy Engineering Applications and Soft Computing Methods OR and Fuzziology and Guess and Review A Tribute to Prof. Dr. Da Ruan Jie Lu, Etienne Kerre, 2012-07-18 This volume is a tribute to Professor Dr Da Ruan who passed away suddenly on July 31 2011 aged 50 The flood of emails that spread throughout the fuzzy logic research community with the tragic news was testimony to the respect and liking felt for this remarkable man Da was a hardworking highly productive scientist who during his short life published 35 books and more than 250 research papers in highly ranked journals and conference proceedings He established two successful conferences FLINS and ISKE as well as the international

journal JCIS This book is a collection of contributions from 88 of Da's academic friends from 47 institutes presented in 60 chapters and over 70 pictures A Foreword by Lotfi Zadeh begins Da's story Section 1 provides an overview of Da's funeral on August 6 2011 Part II outlines Da's scientific life his education scientific career publications and keynote talks Part III presents testimonials by Da's colleagues of academic activities including guest professorships and his many visits to foreign institutes Part IV contains thirty contributions from colleagues and friends across the world to describe their collaborative experience with Da We hope this book will keep the memory of Da alive great scientist great friend great humanitarian He will remain in our hearts forever

Advances in Neural Networks- ISSN 2013 Chengan Guo,Zeng-Guang Hou,Zhigang Zeng,2013-07-04 The two volume set LNCS 7951 and 7952 constitutes the refereed proceedings of the 10th International Symposium on Neural Networks ISSN 2013 held in Dalian China in July 2013 The 157 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in following topics computational neuroscience cognitive science neural network models learning algorithms stability and convergence analysis kernel methods large margin methods and SVM optimization algorithms variational methods control robotics bioinformatics and biomedical engineering brain like systems and brain computer interfaces data mining and knowledge discovery and other applications of neural networks

Fuzzy Systems Conference (FUZZ), 2000 IEEE Neural Networks Council,2000

Genetic Fuzzy Systems Oscar Cordón,2001 In recent years a great number of publications have explored the use of genetic algorithms as a tool for designing fuzzy systems Genetic Fuzzy Systems explores and discusses this symbiosis of evolutionary computation and fuzzy logic The book summarizes and analyzes the novel field of genetic fuzzy systems paying special attention to genetic algorithms that adapt and learn the knowledge base of a fuzzy rule based system It introduces the general concepts foundations and design principles of genetic fuzzy systems and covers the topic of genetic tuning of fuzzy systems It also introduces the three fundamental approaches to genetic learning processes in fuzzy systems the Michigan Pittsburgh and Iterative learning methods Finally it explores hybrid genetic fuzzy systems such as genetic fuzzy clustering or genetic neuro fuzzy systems and describes a number of applications from different areas Genetic Fuzzy System represents a comprehensive treatise on the design of the fuzzy rule based systems using genetic algorithms both from a theoretical and a practical perspective It is a valuable compendium for scientists and engineers concerned with research and applications in the domain of fuzzy systems and genetic algorithms

Large Scale Interactive Fuzzy Multiobjective Programming Masatoshi Sakawa,2012-12-06 Simultaneous considerations of multiobjectiveness fuzziness and block angular structures involved in the real world decision making problems lead us to the new field of interactive multiobjective optimization for large scale programming problems under fuzziness The aim of this book is to introduce the latest advances in the new field of interactive multiobjective optimization for large scale programming problems under fuzziness on the basis of the author's continuing research Special stress is placed on interactive decision making aspects of fuzzy multiobjective optimization for human

centered systems in most realistic situations when dealing with fuzziness The book is intended for graduate students researchers and practitioners in the fields of operations research industrial engineering management science and computer science , **Flexible Databases Supporting Imprecision and Uncertainty** Gloria Bordogna, Giuseppe

Psaila, 2007-06-02 This volume offers the advice of selected expert contributors on the application of heterogeneous methods for managing uncertainty and imprecision in databases It contains both survey chapters on classic topics such as flexible querying in databases and up to date information on database models to represent imperfect data Further it includes specific contributions on uncertainty management in database integration and in representing and querying semistructured and spatial data Fuzzy Set and Its Extension Tamalika Chaira, 2019-04-23 Provides detailed mathematical exposition of the

fundamentals of fuzzy set theory including intuitionistic fuzzy sets This book examines fuzzy and intuitionistic fuzzy mathematics and unifies the latest existing works in literature It enables readers to fully understand the mathematics of both fuzzy set and intuitionistic fuzzy set so that they can use either one in their applications Each chapter of Fuzzy Set and Its Extension The Intuitionistic Fuzzy Set begins with an introduction theory and several examples to guide readers along The first one starts by laying the groundwork of fuzzy intuitionistic fuzzy sets fuzzy hedges and fuzzy relations The next covers fuzzy numbers and explains Zadeh s extension principle Then comes chapters looking at fuzzy operators fuzzy similarity measures and measures of fuzziness and fuzzy intuitionistic fuzzy measures and fuzzy integrals The book also discusses the definition and properties of fuzzy measures examines matrices and determinants of a fuzzy matrix and teaches about fuzzy linear equations Readers will also learn about fuzzy subgroups The second to last chapter examines the application of fuzzy and intuitionistic fuzzy mathematics in image enhancement segmentation and retrieval Finally the book concludes with coverage the extension of fuzzy sets This book Covers both fuzzy and intuitionistic fuzzy sets and includes examples and practical applications Discusses intuitionistic fuzzy integrals and recent aggregation operators using Choquet integral with examples Includes a chapter on applications in image processing using fuzzy and intuitionistic fuzzy sets Explains fuzzy matrix operations and features examples Fuzzy Set and Its Extension The Intuitionistic Fuzzy Set is an ideal text for graduate and research students as well as professionals in image processing decision making pattern recognition and control system design Search Engines, Link Analysis, and User's Web Behavior George Meghabghab, Abraham Kandel, 2008-04-24 This

book presents a specific and unified approach framework to three major components Search Engines Performance Link Analysis and User s Web Behavior The book can be used by researchers in the fields of information sciences engineering especially software computer science statistics and management who are looking for a unified theoretical approach to finding relevant information on the WWW and a way of interpreting it from a data perspective to a user perspective **Ubiquity** Arie Hasman, 2006 Talks about the ubiquitous computing that helps us to identify ways of managing care that promises to be considerably easier in letting patients maintain their good health while enjoying their life in their usual social setting rather

than having to spend much time at costly dedicated healthcare facilities

Fuzzy Logic, Soft Computing and Computational Intelligence, 2005 Advances in Artificial Intelligence. PRICAI 2000 Workshop Reader Ryszard Kowalczyk, Seng W. Loke, Nancy E. Reed, Graham Williams, 2003-06-29

Fuzzy Control Systems Design and Analysis Kazuo Tanaka, Hua O. Wang, 2004-03-24 A comprehensive treatment of model based fuzzy control systems This volume offers full coverage of the systematic framework for the stability and design of nonlinear fuzzy control systems Building on the Takagi Sugeno fuzzy model authors Tanaka and Wang address a number of important issues in fuzzy control systems including stability analysis systematic design procedures incorporation of performance specifications numerical implementations and practical applications Issues that have not been fully treated in existing texts such as stability analysis systematic design and performance analysis are crucial to the validity and applicability of fuzzy control methodology Fuzzy Control Systems Design and Analysis addresses these issues in the framework of parallel distributed compensation a controller structure devised in accordance with the fuzzy model This balanced treatment features an overview of fuzzy control modeling and stability analysis as well as a section on the use of linear matrix inequalities LMI as an approach to fuzzy design and control It also covers advanced topics in model based fuzzy control systems including modeling and control of chaotic systems Later sections offer practical examples in the form of detailed theoretical and experimental studies of fuzzy control in robotic systems and a discussion of future directions in the field Fuzzy Control Systems Design and Analysis offers an advanced treatment of fuzzy control that makes a useful reference for researchers and a reliable text for advanced graduate students in the field

The Geometry of Uncertainty Fabio Cuzzolin, 2020-12-17 The principal aim of this book is to introduce to the widest possible audience an original view of belief calculus and uncertainty theory In this geometric approach to uncertainty uncertainty measures can be seen as points of a suitably complex geometric space and manipulated in that space for example combined or conditioned In the chapters in Part I Theories of Uncertainty the author offers an extensive recapitulation of the state of the art in the mathematics of uncertainty This part of the book contains the most comprehensive summary to date of the whole of belief theory with Chap 4 outlining for the first time and in a logical order all the steps of the reasoning chain associated with modelling uncertainty using belief functions in an attempt to provide a self contained manual for the working scientist In addition the book proposes in Chap 5 what is possibly the most detailed compendium available of all theories of uncertainty Part II The Geometry of Uncertainty is the core of this book as it introduces the author s own geometric approach to uncertainty theory starting with the geometry of belief functions Chap 7 studies the geometry of the space of belief functions or belief space both in terms of a simplex and in terms of its recursive bundle structure Chap 8 extends the analysis to Dempster s rule of combination introducing the notion of a conditional subspace and outlining a simple geometric construction for Dempster s sum Chap 9 delves into the combinatorial properties of plausibility and commonality functions as equivalent representations of the evidence carried by a belief function then Chap

10 starts extending the applicability of the geometric approach to other uncertainty measures focusing in particular on possibility measures consonant belief functions and the related notion of a consistent belief function The chapters in Part III Geometric Interplays are concerned with the interplay of uncertainty measures of different kinds and the geometry of their relationship with a particular focus on the approximation problem Part IV Geometric Reasoning examines the application of the geometric approach to the various elements of the reasoning chain illustrated in Chap 4 in particular conditioning and decision making Part V concludes the book by outlining a future complete statistical theory of random sets future extensions of the geometric approach and identifying high impact applications to climate change machine learning and artificial intelligence The book is suitable for researchers in artificial intelligence statistics and applied science engaged with theories of uncertainty The book is supported with the most comprehensive bibliography on belief and uncertainty theory

Advances and Applications of DSMT for Information Fusion (Collected Works. Volume 5) Florentin Smarandache, Jean Dezert, Albena Tchamova, 2023-12-27 This fifth volume on Advances and Applications of DSMT for Information Fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics and is available in open access The collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs.unm.edu/DSMT/book4.pdf or www.onera.fr/sites/default/files/2972015/DSMT_Book4.pdf in international conferences seminars workshops and journals or they are new The contributions of each part of this volume are chronologically ordered First Part of this book presents some theoretical advances on DSMT dealing mainly with modified Proportional Conflict Redistribution Rules PCR of combination with degree of intersection coarsening techniques interval calculus for PCR thanks to set inversion via interval analysis SIVIA rough set classifiers canonical decomposition of dichotomous belief functions fast PCR fusion fast inter criteria analysis with PCR and improved PCR5 and PCR6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their Matlab codes Because more applications of DSMT have emerged in the past years since the apparition of the fourth book of DSMT in 2015 the second part of this volume is about selected applications of DSMT mainly in building change detection object recognition quality of data association in tracking perception in robotics risk assessment for torrent protection and multi criteria decision making multi modal image fusion coarsening techniques recommender system levee characterization and assessment human heading perception trust assessment robotics biometrics failure detection GPS systems inter criteria analysis group decision human activity recognition storm prediction data association for autonomous vehicles identification of maritime vessels fusion of support vector machines SVM Silx Furtif RUST code library for information fusion including PCR rules and network for ship classification Finally the third part presents interesting contributions related to belief functions in general published or presented along the years since 2015 These contributions are related with decision making under uncertainty belief approximations probability transformations new distances between

belief functions non classical multi criteria decision making problems with belief functions generalization of Bayes theorem image processing data association entropy and cross entropy measures fuzzy evidence numbers negator of belief mass human activity recognition information fusion for breast cancer therapy imbalanced data classification and hybrid techniques mixing deep learning with belief functions as well We want to thank all the contributors of this fifth volume for their research works and their interests in the development of DS_mT and the belief functions We are grateful as well to other colleagues for encouraging us to edit this fifth volume and for sharing with us several ideas and for their questions and comments on DS_mT through the years We thank the International Society of Information Fusion www.isif.org for diffusing main research works related to information fusion including DS_mT in the international fusion conferences series over the years Florentin Smarandache is grateful to The University of New Mexico U S A that many times partially sponsored him to attend international conferences workshops and seminars on Information Fusion Jean Dezert is grateful to the Department of Information Processing and Systems DTIS of the French Aerospace Lab Office National d Etudes et de Recherches Aérospatiales Palaiseau France for encouraging him to carry on this research and for its financial support Albena Tchamova is first of all grateful to Dr Jean Dezert for the opportunity to be involved during more than 20 years to follow and share his smart and beautiful visions and ideas in the development of the powerful Dezert Smarandache Theory for data fusion She is also grateful to the Institute of Information and Communication Technologies Bulgarian Academy of Sciences for sponsoring her to attend international conferences on Information Fusion Far East Journal of Mathematical Sciences ,2007

Information Fusion in Data Mining Prof. Vicenç Torra,2013-06-05 Information fusion is becoming a major requirement in data mining and knowledge discovery in databases This book presents some recent fusion techniques that are currently in use in data mining as well as data mining applications that use information fusion Special focus of the book is on information fusion in preprocessing model building and information extraction with various applications

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