
Ccis 43 Fuzzy Logic And Artificial Neural Networks For

New Trends In Fuzzy Logic Ii - Proceedings Of The Wilf '97 - Second Italian Workshop On Fuzzy Logic 1997
 Fuzzy Logic and Applications
 Applications of Fuzzy Set Theory in Human Factors
 Telematics - Support for Transport
 Fuzzy Sets, Rough Sets, Multisets and Clustering
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KADE KIRSTEN

New Trends In Fuzzy Logic Ii - Proceedings Of The Wilf '97 - Second Italian Workshop On Fuzzy Logic 1997 Springer
 As technology continues to become more sophisticated, mimicking natural processes and phenomena also becomes more of a reality. Continued research in the field of natural computing enables an understanding of the world around us, in addition to opportunities for man-made computing to mirror the natural processes and systems that have existed for centuries. *Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications* takes an interdisciplinary approach to the topic of natural computing, including emerging technologies being developed for the purpose of simulating natural phenomena, applications across industries, and the future outlook of biologically and nature-inspired technologies. Emphasizing critical research in a comprehensive multi-volume set, this publication is designed for use by IT professionals, researchers, and graduate students studying intelligent computing.
Fuzzy Logic and Applications Springer Nature

This book addresses the latest research and applications of fuzzy management methods for business decisions. It showcases a broad set of applications and discusses topics such as measures for the quality of analytics outcomes in big data environments; how fuzzy management methods support the inclusion of human thinking and human behavior in decision making processes; how to generate better results with fuzzy management methods in cases of imprecise information; new personalization concepts enabled by fuzzy logic for the offering of customized products and services especially in the electronic market; and lastly the application of fuzzy analysis for executives using natural rather than computer language. The combination of research papers and case studies makes it a valuable resource both for researchers and practitioners in the digital economy.

Applications of Fuzzy Set Theory in Human Factors World Scientific
 This book constitutes the refereed proceedings of the 8th International Joint Conference on E-Business and Telecommunications, ICETE 2011, held in Seville, Spain in July 2011. The 118 revised full papers presented were carefully reviewed and selected from 409 submissions. The topics covered are data communication networking, e-business, optical

communication systems, security and cryptography, signal processing and multimedia applications, and wireless networks and information systems. These are the main knowledge areas that define the six component conferences, namely: DCNET, ICE-B, OPTICS, SECRYPT, SIGMAP, and WINSYS which together form the ICETE joint conference.

Telematics - Support for Transport Springer

The development of the theory of fuzzy sets was motivated largely by the need for a computational framework for dealing with systems in which human judgement, behavior and emotions play a dominant role. Although there are very few papers on fuzzy sets in the literature of psychology and cognitive science, the theory of fuzzy sets provides a much better model for human cognition than traditional approaches. By focusing on the application of fuzzy sets in human factors, this book provides a valuable, authoritative overview of what the theory is about and how it can be applied. An impressive feature is the broad spectrum of applications, ranging from the use of fuzzy methods in the ergonomic diagnostics of industrial production systems to approximate reasoning in risk analysis and the modeling of human-computer interactions in information retrieval tasks. Equally impressive is the very wide variety of disciplines and countries represented by the contributors.

Fuzzy Sets, Rough Sets, Multisets and Clustering Springer Nature

This book presents the synthesis and analysis of fuzzy controllers and its application to a class of mechanical systems. It mainly focuses on the use of type-2 fuzzy controllers to account for disturbances known as hard or nonsmooth nonlinearities. The book, which summarizes the authors' research on type-2 fuzzy logic and control of mechanical systems, presents models, simulation and experiments towards the control of servomotors with dead-zone and Coulomb friction, and the control of both wheeled mobile robots and a biped robot. Closed-loop systems are analyzed in the framework of smooth and nonsmooth Lyapunov functions.

The Application of Fuzzy Logic for Managerial Decision Making Processes Physica

This book is dedicated to Prof. Sadaaki Miyamoto and presents cutting-edge papers in some of the areas in which he contributed. Bringing together contributions by leading researchers in the field, it concretely addresses clustering, multisets, rough sets and fuzzy sets, as well as their applications in areas such as decision-making. The book is divided in four parts, the first of which focuses on clustering and classification. The second part puts the spotlight on multisets, bags, fuzzy bags and other fuzzy extensions, while the third deals with rough sets. Rounding out the coverage, the last part explores fuzzy sets and decision-making.

Springer Nature

This book contains extended versions of the best papers presented at the 13th International Conference on Information and Communication Technologies in Education, Research, and Industrial Applications, ICTERI 2017, held in Kyiv, Ukraine, in May 2017. The 11 revised full papers included in this volume were carefully reviewed and selected from 151 initial submissions during several rounds of reviewing. The papers are organized in the following topical sections: modeling and theoretical frameworks; ICT in teaching, learning, and education management; and ICT evaluation and applications.

Metaheuristic Computation: A Performance Perspective Springer Nature

A cursory glance at the table of contents of EANN 2009 reveals the amazing range of neural network and related applications. A random but revealing sample includes: reducing urban concentration, entropy topography in epileptic

electroencephalography, phytoplanktonic species recognition, revealing the structure of childhood abdominal pain data, robot control, discriminating angry and happy facial expressions, food forecasting, and assessing credit worthiness. The diverse nature of applications demonstrates the vitality of neural computing and related soft computing approaches, and their relevance to many key contemporary technological challenges. It also illustrates the value of EANN in bringing together a broad spectrum of delegates from across the world to learn from each other's related methods. Variations and extensions of many methods are well represented in the proceedings, ranging from support vector machines, fuzzy reasoning, and Bayesian methods to snap-drift and spiking neurons. This year EANN accepted approximately 40% of submitted papers for full-length presentation at the conference. All members of the Program Committee were asked to participate in the reviewing process. The standard of submissions was high, according to the reviewers, who did an excellent job. The Program and Organizing Committees thank them. Approximately 20% of submitted papers will be chosen, the best according to the reviews, to be extended and reviewed again for inclusion in a special issue of the journal *Neural Computing and Applications*. We hope that these proceedings will help to stimulate further research and development of new applications and modes of neural computing.

Fuzzy Logic and the Internet Springer

This book constitutes the post-conference proceedings of the 12th International Workshop on Fuzzy Logic and Applications, WILF 2018, held in Genoa, Italy, in September 2018. The 17 revised full papers and 9 short papers were carefully reviewed and selected from 26 submissions. The papers are organized in topical sections on fuzzy logic theory, recent applications of fuzzy logic, and fuzzy decision making. Also included are papers from the round table "Zadeh and the future of logic" and a tutorial.

Designing Cognitive Cities Springer

This book offers an introduction to fuzzy sets theory and their operations, with a special focus on aggregation and negation functions. Particular attention is given to interval-valued fuzzy sets and Atanassov's intuitionistic fuzzy sets and their use in uncertainty models involving imperfect or unknown information. The theory and application of interval-valued fuzzy sets to various decision making problems represent the central core of this book, which describes in detail aggregation operators and their use with imprecise data represented as intervals. Interval-valued fuzzy relations, compatibility measures of interval and the transitivity property are thoroughly covered. With its good balance between theoretical considerations and applications of originally developed algorithms to real-world problem, the book offers a timely, inspiring guide to mathematicians and engineers developing new decision making models or implementing/applying existing ones to a wide range of applications involving imprecise or incomplete data.

System Simulation and Scientific Computing Springer

This book constitutes the refereed proceedings of the 9th International RuleML Symposium, RuleML 2015, held in Berlin, Germany, in August 2015. The 25 full papers, 4 short papers, 2 full keynote papers, 2 invited research track overview papers, 1 invited paper, 1 invited abstracts presented were carefully reviewed and selected from 63 submissions. The papers cover the following topics: general RuleML track; complex event processing track, existential rules and datalog+/- track; legal rules and reasoning track; rule learning track; industry track.

Type-2 Fuzzy Logic in Control of Nonsmooth Systems Springer

This book describes novel algorithms based on interval-valued fuzzy methods that are expected to improve classification and

decision-making processes under incomplete or imprecise information. At first, it introduces interval-valued fuzzy sets. It then discusses new methods for aggregation on interval-valued settings, and the most common properties of interval-valued aggregation operators. It then presents applications such as decision making using interval-valued aggregation, and classification in case of missing values. Interesting applications of the developed algorithms to DNA microarray analysis and in medical decision support systems are shown. The book is intended not only as a timely report for the community working on fuzzy sets and their extensions but also for researchers and practitioners dealing with the problems of uncertain or imperfect information.

Fuzzy Logic And Intelligent Technologies In Nuclear Science - Proceedings Of The 1st International Woksp Flins '94 Springer
Autonomous Learning Systems is the result of over a decade of focused research and studies in this emerging area which spans a number of well-known and well-established disciplines that include machine learning, system identification, data mining, fuzzy logic, neural networks, neuro-fuzzy systems, control theory and pattern recognition. The evolution of these systems has been both industry-driven with an increasing demand from sectors such as defence and security, aerospace and advanced process industries, bio-medicine and intelligent transportation, as well as research-driven – there is a strong trend of innovation of all of the above well-established research disciplines that is linked to their on-line and real-time application; their adaptability and flexibility. Providing an introduction to the key technologies, detailed technical explanations of the methodology, and an illustration of the practical relevance of the approach with a wide range of applications, this book addresses the challenges of autonomous learning systems with a systematic approach that lays the foundations for a fast growing area of research that will underpin a range of technological applications vital to both industry and society. Key features: Presents the subject systematically from explaining the fundamentals to illustrating the proposed approach with numerous applications. Covers a wide range of applications in fields including unmanned vehicles/robotics, oil refineries, chemical industry, evolving user behaviour and activity recognition. Reviews traditional fields including clustering, classification, control, fault detection and anomaly detection, filtering and estimation through the prism of evolving and autonomously learning mechanisms. Accompanied by a website hosting additional material, including the software toolbox and lecture notes. Autonomous Learning Systems provides a 'one-stop shop' on the subject for academics, students, researchers and practicing engineers. It is also a valuable reference for Government agencies and software developers.

Computational Intelligence Springer

Engineering Applications of Neural Networks Springer Science & Business Media

Fuzzy Information Processing IGI Global

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 combining discrete and continuous mathematics under one roof for a broad range of applications in data science. Rule Technologies: Foundations, Tools, and Applications Springer
Key issues in applied and fundamental research related to Fuzzy Logic and Intelligent Technologies in the nuclear industry and related fields were addressed by the above workshop. The papers in this volume were carefully selected from a large number of contributions, and cover applications in radiation protection, nuclear safety (human factors and reliability), safeguards, nuclear power plant control, decision making and nuclear reactor control. The papers are categorised into three groups, namely mathematics (basic tools for the treatment of fuzzy logic), engineering (knowledge-based engineering, expert systems, etc.) and nuclear science.

Forging New Frontiers: Fuzzy Pioneers II Springer Science & Business Media

"This book presents up-to-date techniques for addressing data management problems with logic and memory use"--Provided by publisher.

Autonomous Learning Systems Elsevier

Soft computing is a new, emerging discipline rooted in a group of technologies that aim to exploit the tolerance for imprecision and uncertainty in achieving solutions to complex problems. The principal components of soft computing are fuzzy logic, neurocomputing, genetic algorithms and probabilistic reasoning. This volume is a collection of up-to-date articles giving a snapshot of the current state of the field. It covers the whole expanse, from theoretical foundations to applications. The contributors are among the world leaders in the field.

Proceedings - 28. Workshop Computational Intelligence, Dortmund, 29. - 30. November 2018 Springer

This book constitutes the proceedings of the 13th Conference of the European Society for Fuzzy Logic and Technology, EUSFLAT 2023, and 12th International Summer School on Aggregation Operators, AGOP 2023, jointly held in Palma de Mallorca, Spain, during September 4-8, 2023. The 71 full papers presented in this book were carefully reviewed and selected from 161 submissions. The papers are divided into special sessions on: Interval uncertainty; information fusion techniques based on aggregation functions, preaggregation functions and their generalizations; evaluative linguistic expressions, generalized quantifiers and applications; neural networks under uncertainty and imperfect information; imprecision modeling and management in XAI systems; recent trends in mathematical fuzzy logics; fuzzy graph-based models: theory and application; new frontiers of computational intelligence for pervasive healthcare systems; fuzzy implication functions; and new challenges and ideas in statistical inference and data analysis.

Fuzzy Logic and Technology, and Aggregation Operators KIT Scientific Publishing

This book constitutes the refereed proceedings of the 15 Ibero-American Conference on Artificial Intelligence, IBERAMIA 2016, held in San José, Costa Rica, in November 2016. The 34 papers presented were carefully reviewed and selected from 75 submissions. The papers are organized in the following topical

sections: knowledge engineering, knowledge representation and probabilistic reasoning; agent technology and multi-agent systems; planning and scheduling; natural language processing; machine learning; big data, knowledge discovery and data

mining; computer vision and pattern recognition; computational intelligence soft computing; AI in education, affective computing, and human-computer interaction.

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