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# Ccis 43 Fuzzy Logic And Artificial Neural Networks For

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12th International Workshop, WILF 2018, Genoa, Italy, September 6–7, 2018, Revised Selected Papers

Advances in Deep Learning for Medical Image Analysis

Soft Computing: State of the Art Theory and Novel Applications

Telematics - Support for Transport

Asia Simulation Conference 2012, Shanghai, China, October 27-30, 2012.

Proceedings, Part III

14th International Conference on Transport Systems Telematics, TST 2014, Katowice/Krakow/Ustron, Poland, October 22-25, 2014. Proceedings

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11th International Conference, EANN 2009, London, UK, August 27-29, 2009, Proceedings

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Information Processing and Management of Uncertainty in Knowledge-Based Systems

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13th International Conference, ICTERI 2017, Kyiv, Ukraine, May 15-18, 2017, Revised Selected Papers

Computational Intelligence

17th International Conference, IPMU 2018, Cádiz, Spain, June 11-15, 2018, Proceedings, Part I

24th International Conference, ICIST 2018, Vilnius, Lithuania, October 4–6, 2018, Proceedings

Information and Software Technologies

13th International Conference, ICCSA 2013, Ho Chi Minh City, Vietnam, June 24-27, 2013, Proceedings, Part IV  
Computational Science and Its Applications -- ICCSA 2013  
Applied Fuzzy Systems  
Proceedings of the 11th International Conference FQAS 2015, Cracow, Poland, October 26-28, 2015  
Engineering Applications of Neural Networks  
Third International Conference, RTIP2R 2020, Aurangabad, India, January 3-4, 2020, Revised Selected Papers, Part II  
9th International Symposium, RuleML 2015, Berlin, Germany, August 2-5, 2015, Proceedings  
Proceedings of the INFUS 2021 Conference, held August 24-26, 2021. Volume 1  
Computational Intelligence and Mathematics for Tackling Complex Problems  
37th Conference of the North American Fuzzy Information Processing Society, NAFIPS 2018, Fortaleza, Brazil, July 4-6, 2018, Proceedings  
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## **LUCAS DESIREE**

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12th International Workshop, WILF 2018, Genoa, Italy, September 6-7, 2018, Revised Selected Papers Springer  
Applied Fuzzy Systems provides information pertinent to the fundamental aspects of fuzzy systems theory and its application. This book discusses the development of high-level artificial intelligence and information processing systems, as well as the realization of fuzzy computers. Organized into six chapters, this book begins with an overview of the fundamental problems addressed by fuzzy systems. This text then reviews standard computer logic or two-valued Boolean algebra. Other chapters consider bus scheduling, evaluation of structural reliability, applications of schema systems for decision-making, and processing of natural-language information and systems for medical diagnosis as

examples of fuzzy expert systems. This book discusses as well a practical fuzzy expert system for durability evaluations of reinforced concrete slabs for bridges, along with an example of application. The final chapter deals with the important parts of the construction of fuzzy computers, their architecture, and the outlook for the future. This book is a valuable resource for engineers, mathematicians, technicians, and research workers.

### **Advances in Deep Learning for Medical Image Analysis** Springer Nature

This volume contains the papers presented at the Eleventh Flexible Query Answering Systems 2015 (FQAS-2015) held on October 26-28, 2015 in Cracow, Poland. The international conferences on Flexible Query Answering Systems (FQAS) are a series of premier conferences focusing on the key issue in the information society of providing easy, flexible, and intuitive access to information and knowledge to everybody, even people with a very

limited computer literacy. In targeting this issue, the Conference draws on several research areas, such as information retrieval, database management, information filtering, knowledge representation, soft computing, management of multimedia information, and human-computer interaction. The Conference provides a unique opportunity for researchers, developers and practitioners to explore new ideas and approaches in a multidisciplinary forum.

### **Soft Computing: State of the Art Theory and Novel Applications**

Springer

This two-volume set constitutes the refereed proceedings of the Third International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R) 2020, held in Aurangabad, India, in January 2020. The 78 revised full papers presented were carefully reviewed and selected from 329 submissions. The papers are organized in topical sections in the two volumes. Part I: Computer vision and applications; Data science and machine learning; Document understanding and Recognition. Part II: Healthcare informatics and medical imaging; Image analysis and recognition; Signal processing and pattern recognition; Image and signal processing in Agriculture.

### **Telematics - Support for Transport**

Springer Nature

This book constitutes the refereed proceedings of the 11th Joint Conference on Knowledge-Based Software-Engineering, JCKBSE 2014, held in Volgograd, Russia, in September 2014. The 59 full and 3 short papers presented were carefully reviewed and selected from 197 submissions. The papers are organized in topical sections on

methodology and tools for knowledge discovery and data mining; methods and tools for software engineering education; knowledge technologies for semantic web and ontology engineering; knowledge-based methods and tools for testing, verification and validation, maintenance and evolution; natural language processing, image analysis and recognition; knowledge-based methods and applications in information security, robotics and navigation; decision support methods for software engineering; architecture of knowledge-based systems, including intelligent agents and softbots; automating software design and synthesis; knowledge management for business processes, workflows and enterprise modeling; knowledge-based methods and applications in bioscience, medicine and justice; knowledge-based requirements engineering, domain analysis and modeling; intelligent user interfaces and human-machine interaction; lean software engineering; program understanding, programming knowledge, modeling programs and programmers.

### **Asia Simulation Conference 2012, Shanghai, China, October 27-30, 2012. Proceedings, Part III**

Springer  
Nature-inspired computation is an interdisciplinary topic area that connects the natural sciences to computer science. Since natural computing is utilized in a variety of disciplines, it is imperative to research its capabilities in solving optimization issues. The Handbook of Research on Natural Computing for Optimization Problems discusses nascent optimization procedures in nature-inspired computation and the innovative tools and techniques being utilized in the field. Highlighting empirical research and best practices concerning various

optimization issues, this publication is a comprehensive reference for researchers, academicians, students, scientists, and technology developers interested in a multidisciplinary perspective on natural computational systems.

14th International Conference on Transport Systems Telematics, TST 2014, Katowice/Krakow/Ustron, Poland, October 22-25, 2014. Proceedings IGI Global

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.

*International Joint Conference, ICETE 2011, Seville, Spain, July 18-21, 2011. Revised Selected Papers* Springer

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.

Information Processing and Management of Uncertainty in Knowledge-Based Systems. Theory and Foundations Springer

This book constitutes the thoroughly refereed proceedings of the 9th International Congress on Telematics and Computing, WITCOM 2020, held in Puerto Vallarta, Mexico, in November 2020. Due to the COVID-19 pandemic the conference was held online. The 28 full papers and 3 short papers in this volume were carefully reviewed and selected from 79 submissions. The papers are focused on the topics of deep and machine learning, cybersecurity, wireless networks, computer vision, communications, and education applied to different sceneries of study and COVID-19.

Interval-Valued Methods in Classifications and Decisions Springer Nature

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.

18th International Conference, IPMU 2020, Lisbon, Portugal, June 15-19, 2020, Proceedings, Part II Springer

This book gathers authoritative contributions in the field of Soft Computing. Based on selected papers presented at the 7th World Conference on Soft Computing, which was held on May 29-31, 2018, in Baku, Azerbaijan, it describes new theoretical advances, as well as cutting-edge methods and applications. New theories and algorithms in fuzzy logic, cognitive modeling, graph theory and metaheuristics are discussed, and applications in data mining, social networks, control and robotics, geoscience, biomedicine and industrial management are described. This book offers a timely, broad snapshot of recent developments, including thought-provoking trends and challenges that are yielding new research directions in the diverse areas of Soft Computing.  
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.

*Challenges and Opportunities in the Digital Era* Springer

This book combines computational intelligence and mathematics to solve theoretical and real-world problems. The real challenges of engineering and other applied sciences, e.g. economics and management, the social sciences, etc., and even everyday life, are increasingly raising complex problems – both in the usual sense, but also in the mathematical and theoretical computer science sense, which is referred to as intractability. Finding exact solutions to the latest problems in mathematics is impossible, and it has been also shown that no further technical advance will ever make it possible to find general and exact solutions to such complex problems. Rather, the goal is to find solutions that are “good enough” or “acceptably accurate,” including models and corresponding algorithms, which is most often achieved by combining traditional mathematical techniques and computational intelligence tools, such as fuzzy systems, evolutionary and memetic algorithms, and artificial neural networks. Consequently, international funding programs, such as the European Commission’s current framework program for research and innovation (Horizon 2020), and the preliminary research team building COST Actions, are devoted to developing new instruments for tackling the challenges that we face in the current technological age. And it goes without saying that research topics concerning the interactions between computational intelligence and traditional mathematics play a key role in overcoming the obstacles associated with the intractability of complex problems. In

this book, mathematicians, engineers, and other scientists highlight novel methodological results connecting these two main research areas, and focusing on solving real-life problems.

*Introduction to AI Techniques for Renewable Energy System* CRC Press

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, SECRIPT, SIGMAP, and WINSYS which together form the ICETE joint conference.

**Information Processing and Management of Uncertainty in Knowledge-Based Systems** John Wiley & Sons

The five-volume set LNCS 7971-7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications, ICCSA 2013, held in Ho Chi Minh City, Vietnam in June 2013. The 248 revised papers presented in five tracks and 33 special sessions and workshops were carefully reviewed and selected. The 46 papers included in the five general tracks are organized in the following topical sections: computational methods, algorithms and scientific applications; high-performance computing and networks; geometric modeling, graphics and visualization;

advanced and emerging applications; and information systems and technologies. The 202 papers presented in special sessions and workshops cover a wide range of topics in computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality.

*Uncertainty Data in Interval-Valued Fuzzy Set Theory* Springer

It is a great pleasure to share with you the Springer CCIS 111 proceedings of the Third World Summit on the Knowledge Society--WSKS 2010--that was organized by the International Scientific Council for the Knowledge Society, and supported by the Open Research Society, NGO, (<http://www.open-knowledge-society.org>) and the International Journal of the Knowledge Society Research, (<http://www.igi-global.com/ijksr>), and took place in Aquis Corfu Holiday Palace Hotel, on Corfu island, Greece, September 22–24, 2010. The Third World Summit on the Knowledge Society (WSKS 2010) was an international scientific event devoted to promoting the dialogue on the main aspects of the knowledge society towards a better world for all. The multidimensional economic and social crisis of the last couple years brings to the fore the need to discuss in depth new policies and strategies for a human-centric developmental process in the global context. This annual summit brings together key stakeholders of knowledge society development worldwide, from academia, industry, government, policy makers, and active citizens to look at the impact and prospects of information technology, and the knowledge-based era it is creating, on key facets of living, working, learning, innovating, and

collaborating in today's hyper-complex world.

**11th International Conference, EANN 2009, London, UK, August 27-29, 2009, Proceedings** Springer

This book commemorates the 65th birthday of Dr. Boris Kovalerchuk, and reflects many of the research areas covered by his work. It focuses on data processing under uncertainty, especially fuzzy data processing, when uncertainty comes from the imprecision of expert opinions. The book includes 17 authoritative contributions by leading experts.

**11th Joint Conference, JCKBSE 2014, Volgograd, Russia, September 17-20, 2014. Proceedings** Springer

This book constitutes the thoroughly refereed proceedings of the 37th IFSA Conference, NAFIPS 2018, held in Fortaleza, Brazil, in July 2018. The 55 full papers presented were carefully reviewed and selected from 73 submissions. The papers deal with a large spectrum of topics, including theory and applications of fuzzy numbers and sets, fuzzy logic, fuzzy inference systems, fuzzy clustering, fuzzy pattern classification, neuro-fuzzy systems, fuzzy control systems, fuzzy modeling, fuzzy mathematical morphology, fuzzy dynamical systems, time series forecasting, and making decision under uncertainty.

*Properties, Algorithms and Applications* Birkhäuser

This book constitutes the refereed conference proceedings of the 17th IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 201, held in Kuwait City, Kuwait, in October/November 2018. The 65 revised full papers presented were carefully reviewed and selected from 99 submissions. Topics of interest include,

amongst others, the following: social media; information systems; marketing and communications; management and operations; public administration; economics, sociology, and psychology; e-finance, e-banking, and e-accounting; computer science and computer engineering; and teaching and learning.

**Ubiquitous Computing and Multimedia Applications** Springer

The book provides a comprehensive and timely report on the topic of decision making and decision analysis in economics and the social sciences. The various contributions included in the book, selected using a peer review process, present important studies and research conducted in various countries around the globe. The majority of these studies are concerned with the analysis, modeling and formalization of the behavior of groups or committees that are in charge of making decisions of social and economic importance. Decisions in these contexts have to meet precise coherence standards and achieve a significant degree of sharing, consensus and acceptance, even in uncertain and fuzzy environments. This necessitates the confluence of several research fields, such as foundations of social choice and decision making, mathematics, complexity, psychology,

sociology and economics. A large spectrum of problems that may be encountered during decision making and decision analysis in the areas of economics and the social sciences, together with a broad range of tools and techniques that may be used to solve those problems, are presented in detail in this book, making it an ideal reference work for all those interested in analyzing and implementing mathematical tools for application to relevant issues involving the economy and society.

*10th International Conference, SUM 2016, Nice, France, September 21-23, 2016, Proceedings* Springer Science & Business Media

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.

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