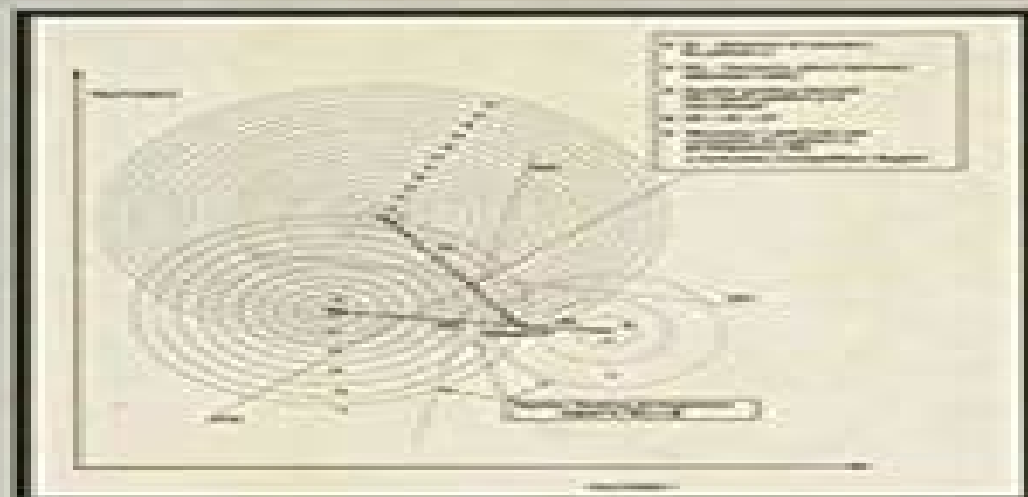


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# Soft Computing and Human-Centered Machines



Springer

# Soft Computing And Humancentered Machines

**Mohamed Ben Ahmed, Anouar  
Abdelhakim Boudhir, Domingos  
Santos, Mohamed El Aroussi, Ismail  
Rakıp Karas**

## **Soft Computing And Humancentered Machines:**

Soft Computing and Human-Centered Machines Z.-Q. Liu, S. Miyamoto, 2012-12-06 Computer Science Workbench is a monograph series which will provide you with an in depth working knowledge of current developments in computer technology Every volume in this series will deal with a topic of importance in computer science and elaborate on how you yourself can build systems related to the main theme You will be able to develop a variety of systems including computer software tools computer graphics computer animation database management systems and computer aided design and manufacturing systems Computer Science Work bench represents an important new contribution in the field of practical computer technology Tosiyasu L Kunii Preface With the advent of digital computers some five decades ago and the wide spread use of computer networks recently we have gained enormous power in gathering information and manufacturing Yet this increase in computing power has not given us freedom in a real sense we are increasingly enslaved by the very machine we built for gaining freedom and efficiency Making machines to serve mankind is an essential issue we are facing Building human centered systems is an imperative task for scientists and engineers in the new millennium The topic of human centered servant modules covers a vast area In our projects we have focused our efforts on developing theories and techniques based on fuzzy theories Chapters 2 to 12 in this book collectively deal with the theoretical methodological and applicational aspects of human centered systems Each chapter presents the most recent research results by the authors on a particular topic

**Machine Intelligence and Soft Computing** Debnath Bhattacharyya, Sanjoy Kumar Saha, Philippe Fournier-Viger, 2022-02-22 This book gathers selected papers presented at the International Conference on Machine Intelligence and Soft Computing ICMISC 2021 organized by Koneru Lakshmaiah Education Foundation Guntur Andhra Pradesh India during 22-24 September 2021 The topics covered in the book include the artificial neural networks and fuzzy logic cloud computing evolutionary algorithms and computation machine learning metaheuristics and swarm intelligence neuro fuzzy system soft computing and decision support systems soft computing applications in actuarial science soft computing for database deadlock resolution soft computing methods in engineering and support vector machine

Soft Computing in Industry 5.0 for Sustainability C Kishor Kumar Reddy, Thandiwe Sithole, Mariya Ouaisa, Özen ÖZER, Marlia M. Hanafiah, 2024-11-15 Soft computing and Industry 5.0 are two distinct concepts that when combined can have a significant impact on sustainability initiatives within various industries Soft computing is a subfield of artificial intelligence AI that aims to address problems characterized by uncertainty imprecision and partial truth It encompasses various computational techniques such as fuzzy logic neural networks genetic algorithms and machine learning which enable machines to deal with complex and uncertain data in a more human like manner Soft computing techniques are particularly valuable in sustainability efforts because they can handle non linear relationships and uncertain data that often arise in environmental and social contexts For example they can be used to optimize energy consumption waste management and resource

allocation in industries by considering various factors and trade offs The book highlights the latest innovations in intelligent systems in classical machine learning deep learning Internet of Things IoT Industrial Internet of Things IIoT blockchain knowledge representation knowledge management big data and natural language processing NLP The book contains many contemporary articles from both scientists and practitioners working in many fields where soft computing intelligent systems and the IIoT can break new ground Intelligent systems and the Internet of Things are now essential technologies in almost every field From agriculture to industry to healthcare the scope of smart systems and IIoT is as wide as the horizon Nowadays these technologies are extensively used in developed countries but they are still at an early stage in emerging countries The primary market of this book is senior undergraduate students post graduate students practitioners researchers academicians industrialists and professionals working in areas of core computer science electrical engineering mechanical engineering environmental engineering and agricultural engineering The secondary audience of this book is individuals working in the areas of manufacturing agriculture remote sensing environmental engineering health care smart cities smart farming remote sensing supply chain management and hydrology

**Neural Networks in a Softcomputing Framework**  
Ke-Lin Du, M.N.S. Swamy, 2006-08-02 Conventional model based data processing methods are computationally expensive and require experts knowledge for the modelling of a system Neural networks are a model free adaptive parallel processing solution This textbook provides a powerful and universal paradigm for information processing it reviews the most popular neural network methods and their associated techniques Each chapter has a systematic survey of each neural network model Computational intelligence topics like fuzzy logic and genetic algorithms tools for neural network learning are introduced Array signal processing problems are used to show the applications of each model This is an ideal textbook for graduate students and researchers as well as introducing the basics the exhaustive list of references included will aid their future research It is also a valuable reference for scientists and practitioners working in pattern recognition signal processing speech and image processing data analysis and AI

**Human-Centered Approaches in Industry 5.0: Human-Machine Interaction, Virtual Reality Training, and Customer Sentiment Analysis** Hassan, Ahdi, Dutta, Pushan Kumar, Gupta, Subir, Mattar, Ebrahim, Singh, Satya, 2024-01-16 Rapid digital transformation is forcing the manufacturing industry to drastically alter its current trajectory for future success The remarkable convergence of digitalization and manufacturing is reshaping industries ushering in an era known as Industry 5.0 This revolutionary transition has given birth to digital manufacturing and smart factories heralding a new dawn in the way we produce goods The amalgamation of artificial intelligence AI robotics the internet of things IoT augmented reality AR virtual reality VR big data analytics cloud computing and additive manufacturing stands poised to unlock unprecedented avenues in the realm of production Practitioners researchers dreamers and pioneers all are beckoned to explore the uncharted territories of digital innovation in manufacturing Human Centered Approaches in Industry 5.0 Human Machine Interaction Virtual Reality Training and

Customer Sentiment Analysis spans domains from mechanical and electrical engineering to computer science from industrial economics to business strategy and this book addresses this diverse audience The book embarks on a comprehensive voyage unveiling the latest evolutions and nascent trends within digital manufacturing and smart factories From inception to execution from design optimization to predictive maintenance every phase of the manufacturing lifecycle is scrutinized through the lens of cutting edge technologies Rather than relying exclusively on the theoretical realm this book also ventures into the crucible of real world application offering practical insights drawn from varied industries including automotive aerospace and pharmaceuticals

**Human-Machine Collaboration and Emotional Intelligence in Industry 5.0** Kumar, Nitendra, Pal, Surya Kant, Agarwal, Priyanka, Rosak-Szyrocka, Joanna, Jain, Vishal, 2024-07-22 In the rapidly evolving landscape of Industry 5.0 integrating emotional intelligence into the industrial framework is becoming increasingly crucial Organizations are trying to navigate this uncharted territory and seeking guidance on understanding implementing and ethically managing artificial emotional intelligence AEI However the absence of a comprehensive resource addressing these complexities has left a significant void in academic scholarship and industrial practice Human Machine Collaboration and Emotional Intelligence in Industry 5.0 offers a holistic exploration of emotion recognition affective computing and human robot interaction It equips readers with the knowledge and tools to successfully integrate AEI into Industry 5.0 ensuring a harmonious collaboration between humans and machines This book is a go to resource for scholars industry professionals and decision makers seeking to leverage emotional intelligence in the Fifth Industrial Revolution by addressing practical implementations ethical considerations and real world impacts

**Machine Learning and Soft Computing** Letian Huang, 2025-06-24 This two part volume CCIS constitutes the refereed proceedings of 9th International Conference ICMLSC 2025 in Tokyo Japan in January 24-26 2025 The 39 full papers and 13 short papers included in this book were carefully reviewed and selected from 121 submissions They follow the topical sections as below Part I Multimodal Data Analysis and Model Optimization Basic Theories of Machine Learning and Emerging Application Technologies and Intelligent Recommendation System Design and Privacy Security Part II Deep Learning Models and High performance Computing Data driven Complex System Modeling and Intelligent Optimization Algorithms and Image Analysis and Processing Methods based on AI

**Soft Computing Agents** Vincenzo Loia, 2002 Annotation In the last thirty years the researchers involved in the design of smart systems have continuously provided methodologies and technologies to deal human and artificial behaviours The study of intelligent machines is attested by an enormous and growing literature and by a remarkable spin off in wide range of innovative projects Nevertheless these efforts intelligent based systems design still remain an open problem especially from a performances as well as complexity viewpoints Recent advances in networking technology and the ubiquity of the Internet open new perspectives in software application improvement This new scenario demands new paradigms to cope with computational models characterized by an unceasing dynamism strong decentralization and high unpredictability

The exciting potential of agent technology has deeply marked these last years as a winning strategy to address the issues cited before Agents or Multi Agent Systems sketch intelligent behaviours by describing and managing computational activities shared over communities of large grain entities Even though an agent owns a partial knowledge and a reduced deductive ability it may acquire wider competences thanks to rich interaction cooperation schemas It is clear that agent technology better fits the aspects of all those problems which can be depicted in terms of cooperating endeavours Soft Computing and in particular Fuzzy Technology may play an important role in the design of smart agents Promising benefits derive from well founded soft computing oriented approaches in order to better manage the behavioural models of the agents especially when the interactions occur in an environment characterized by imprecision uncertainty and partial truth The book intends to focus the contributions into three basic directions to present the state of the art in the development of soft computing based agents to examine the role of soft computing based technology in various facets of agent design problem solving autonomy adaptivity reactivity communication interaction to cross fertilize ideas on the soft computing perspective to the development of agent based intelligent information systems      *Behavioral Decision Theory* Kazuhisa

Takemura,2021-09-29 This book is the second edition of Behavioral Decision Theory published in 2014 The main approach and structure of this book have been retained in the new edition However this second edition provides a fresh overview of the idea of behavioral decision theory and related research findings such as theoretical and empirical discoveries of preference formation time discounting social interaction and social decision making The book covers a wide range from classical to relatively recent major studies concerning behavioral decision theory which in brief is a general term for descriptive theories to explain the psychological knowledge related to people s decision making behavior It is called a theory but is actually a combination of various psychological theories for which no axiomatic systems such as those associated with the utility theory widely used in economics have been established The utility theory is often limited to qualitative knowledge however as the studies of Nobel laureates H A Simon D Kahneman and R Thaler have suggested the psychological methodology and knowledge of behavioral decision theory have been applied widely in such fields as economics business administration and engineering and are expected to become even more useful in the future Research into people s decision making represents an important part in those fields various aspects of which overlap with the scope of behavioral decision theory This theory is closely related to behavioral economics and behavioral finance which have come into greater use in recent years This book will appeal especially to graduate students advanced undergraduate students and researchers who are interested in decision making phenomena      [Foundations of Economic Psychology](#) Kazuhisa Takemura,2019-07-26 This book provides an overview of the concept of economic psychology from behavioral and mathematical perspectives and related theoretical and empirical findings Economic psychology is defined briefly as a general term for descriptive theories to explain the psychological processes of microeconomic behaviors and macroeconomic phenomena However the psychological methodology and

knowledge of economic psychology have also been applied widely in such fields as economics business administration and engineering and they are expected to become increasingly useful in the future a trend suggested in several eminent scholars studies The book explains the numerous behavioral and mathematical models of economic psychology related to micro and macroeconomic phenomena that have been proposed in the past and introduces new models that are useful to explain human economic behaviors It concludes with speculations about the future of modern economic psychology referring to its connection with fields related to neuroscience such as neuroeconomics which have been developed in recent years Readers require no advanced expertise nonetheless an introductory understanding of psychology business administration and economics and a high school graduate level of mathematics are useful To aid readers each chapter includes a bibliography which can be referred for more details related to economic psychology

**Advances In Artificial Intelligence For Privacy Protection And Security** Agusti Solanas, Antoni Martinez-balleste, 2009-08-03 In this book we aim to collect the most recent advances in artificial intelligence techniques i e neural networks fuzzy systems multi agent systems genetic algorithms image analysis clustering etc which are applied to the protection of privacy and security The symbiosis between these fields leads to a pool of invigorating ideas which are explored in this book On the one hand individual privacy protection is a hot topic and must be addressed in order to guarantee the proper evolution of a modern society On the other security can invade individual privacy especially after the appearance of new forms of terrorism In this book we analyze these problems from a new point of view

**Escaping from Bad Decisions** Kazuhisa Takemura, 2021-07-27 Escaping from Bad Decisions presents a modern conceptual and mathematical framework of the decision making process By interpreting ordinal utility theory as normative analysis examined in view of rationality it shows how decision making under certainty risk and uncertainty can be better understood It provides a critical examination of psychological models in multi attribute decision making and evaluates the constitutive elements of good and bad decisions Multi attribute decision making is analysed descriptively based on the psychological model of decision making and computer simulations of decision strategies Finally prescriptive examinations of multi attribute decision making are performed supporting the argument that decision making from a pluralistic perspective creates results that can help escape from bad decisions This book will be of particular interest to graduate students and early career researchers in economics decision theory behavioral economics experimental economics psychology cognitive sciences and decision neurosciences Provides a comprehensive background to the phenomena of bad decisions considered in their economic psychological and cognitive aspects Reinterprets existing theories and phenomena and proposes a new overview of decision behaviors by integrating mathematical and psychological perspectives Adapts model based techniques such as mathematical model based functional magnetic resonance imaging fMRI using mathematical models of the decision process

**Innovations in Smart Cities Applications Edition 3** Mohamed Ben Ahmed, Anouar Abdelhakim Boudhir, Domingos Santos, Mohamed El Aroussi, İsmail Rakıp Karas, 2020-02-04 This book

highlights original research and recent advances in various fields related to smart cities and their applications. It gathers papers presented at the Fourth International Conference on Smart City Applications SCA19 held on October 24, 2019 in Casablanca, Morocco. Bringing together contributions by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer science, electrical engineering, and urban sciences. It is also an excellent reference guide for professionals, researchers, and academics in the field of smart cities. This book covers topics including Smart Citizenship, Smart Education, Digital Business, and Smart Governance, Smart Health Care, New Generation of Networks and Systems for Smart Cities, Smart Grids and Electrical Engineering, Smart Mobility, Smart Security, Sustainable Building, Sustainable Environment.

**Soft Computing and Machine Learning** Mohd Anas Wajid, Aasim Zafar, Mohammad Saif Wajid, Akib Mohi Ud Din Khanday, Pronaya Bhattacharya, 2025-04-28. This reference text covers the theory and applications of soft computing and machine learning and presents readers with the intelligent fuzzy and neutrosophic rules that require situations where classical modeling approaches cannot be utilized, such as when there is incomplete, unclear, or imprecise information at hand or inadequate data. It further illustrates topics such as image processing and power system analysis. This book discusses soft computing techniques including fuzzy logic, rough sets, neutrosophic sets, neural networks, generative adversarial networks, and evolutionary computation. Examines novel and contemporary advances in the fields of soft computing, fuzzy computing, neutrosophic computing, and machine learning systems, as well as their applications in real life. Serves as a comprehensive reference for applying machine learning and neutrosophic sets in real world applications such as smart cities, healthcare, and the Internet of Things. Covers topics such as image processing, bioinformatics, natural language processing, supply chain management, and cybernetics. Illustrates classification of neutrosophic machine learning, neutrosophic reinforcement learning, and applications of neutrosophic machine learning in emerging industries. The text is written for senior undergraduate students, graduate students, and academic researchers in the fields of electrical engineering, electronics, and communications engineering, computer science, and engineering, and information technology.

**Human-Centered Artificial Intelligence** Chang S. Nam, Jae-Yoon Jung, Sangwon Lee, 2022-05-15. Human-Centered Artificial Intelligence: Research and Applications presents current theories, fundamentals, techniques, and diverse applications of human-centered AI. Sections address the question: are AI models explainable, interpretable, and understandable? Introduce readers to the design and development process, including mind perception and human interfaces. Explore various applications of human-centered AI, including human-robot interaction, healthcare, and decision making, and more. As human-centered AI aims to push the boundaries of previously limited AI solutions to bridge the gap between machine and human, this book is an ideal update on the latest advances. Presents extensive research on human-centered AI technology. Provides different methods and techniques used to investigate human-AI interaction. Discusses open questions and challenges in trust within human-centered AI. Explores how human-centered AI changes and operates in human



machine interactions      Machine Learning for Criminology and Crime Research Gian Maria Campedelli, 2022-06-09 Machine Learning for Criminology and Crime Research At the Crossroads reviews the roots of the intersection between machine learning artificial intelligence AI and research on crime examines the current state of the art in this area of scholarly inquiry and discusses future perspectives that may emerge from this relationship As machine learning and AI approaches become increasingly pervasive it is critical for criminology and crime research to reflect on the ways in which these paradigms could reshape the study of crime In response this book seeks to stimulate this discussion The opening part is framed through a historical lens with the first chapter dedicated to the origins of the relationship between AI and research on crime refuting the novelty narrative that often surrounds this debate The second presents a compact overview of the history of AI further providing a nontechnical primer on machine learning The following chapter reviews some of the most important trends in computational criminology and quantitatively characterizing publication patterns at the intersection of AI and criminology through a network science approach This book also looks to the future proposing two goals and four pathways to increase the positive societal impact of algorithmic systems in research on crime The sixth chapter provides a survey of the methods emerging from the integration of machine learning and causal inference showcasing their promise for answering a range of critical questions With its transdisciplinary approach Machine Learning for Criminology and Crime Research is important reading for scholars and students in criminology criminal justice sociology and economics as well as AI data sciences and statistics and computer science      **Fuzzy Sets, Rough Sets, Multisets and Clustering** Vicenç Torra, Anders

Dahlbom, Yasuo Narukawa, 2017-01-13 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      Cybernetics, Human Cognition, and Machine Learning in Communicative Applications Vinit Kumar Gunjan, Sabrina Senatore, Amit Kumar, 2025-01-09 This book presents the fascinating intersection of human cognition and artificial intelligence Written by leading experts in the fields of cybernetics cognitive science and machine learning this book seeks to bridge the gap between these disciplines and explores the synergies that emerge when humans and machines work together The book examines the challenges posed by biased data lack of transparency and the black box nature of some machine learning algorithms It proposes novel ways to address these issues and foster greater trust and accountability in AI systems Drawing on cutting edge research and real world case studies it presents a comprehensive and forward looking perspective on the future of AI and its impact on society In conclusion this book offers a compelling exploration of the synergy between human cognition and machine learning providing insights that are relevant to scholars

researchers policymakers and anyone interested in the transformative potential of artificial intelligence     Rough Sets, Fuzzy Sets, Data Mining and Granular Computing Aijun An, Jerzy Stefanowski, Sheela Ramanna, Cory Butz, Witold Pedrycz, 2007-08-22 This book constitutes the refereed proceedings of the 11th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2007 held in Toronto Canada in May 2007 in conjunction with the Second International Conference on Rough Sets and Knowledge Technology RSKT 2007 both as part of the Joint Rough Set Symposium JRS 2007     *Human Centered Computing* Qiaohong Zu, Bo Hu, Ning Gu, Sopheap Seng, 2015-03-03 This book constitutes revised selected papers from the refereed proceedings of the First Human Centered Computing Conference HCC 2014 that consolidated and further develops the successful ICPCA SWS conferences on Pervasive Computing and the Networked World The 54 full papers and 30 short papers presented in this volume were carefully reviewed and selected from 152 submissions These proceedings present research papers investigating into a variety of aspects towards human centric intelligent societies They cover the categories infrastructure and devices service and solution data and knowledge and community

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