

Advances in Intelligent Systems and Computing (2014)

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Artificial Intelligence and Evolutionary Computations in Engineering Systems

 Springer

Online Artificial Intelligence Evolutionary Computations Engineering

Seppo J. Ovaska



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Computational Intelligence, Evolutionary Computing and Evolutionary Clustering Algorithms Terje

Kristensen,2016-09-30 This brief text presents a general guideline for writing advanced algorithms for solving engineering and data visualization problems The book starts with an introduction to the concept of evolutionary algorithms followed by details on clustering and evolutionary programming Subsequent chapters present information on aspects of computer system design implementation and data visualization The book concludes with notes on the possible applications of evolutionary algorithms in the near future This book is intended as a supplementary guide for students and technical apprentices learning machine language or participating in advanced software programming design and engineering courses **Computational**

Artificial Intelligence and Methods for industries Vijayarangan Natarajan,2025-07-04 This book presents the result of an innovative challenge to create a systematic literature overview driven by machine generated content Questions and related keywords were prepared for the machine to query discover collate and structure by Artificial Intelligence AI clustering The AI based approach seemed especially suitable to provide an innovative perspective as the topics are indeed both complex interdisciplinary and multidisciplinary for example climate planetary and evolution sciences Springer Nature has published much on these topics in its journals over the years so the challenge was for the machine to identify the most relevant content and present it in a structured way that the reader would find useful The automatically generated literature summaries in this book are intended as a springboard to further discoverability They are particularly useful to readers with limited time looking to learn more about the subject quickly and especially if they are new to the topics Springer Nature seeks to support anyone who needs a fast and effective start in their content discovery journey from the undergraduate student exploring interdisciplinary content to Master or PhD thesis developing research questions to the practitioner seeking support materials this book can serve as an inspiration to name a few examples It is important to us as a publisher to make the advances in technology easily accessible to our authors and find new ways of AI based author services that allow human machine interaction to generate readable usable collated research content **Open AI and Computational Intelligence**

for Society 5.0 Pandey, Rajiv, Srivastava, Nidhi, Prasad, Rajesh, Prasad, Jayashree, Garcia, Manuel B.,2024-11-29 As technology rapidly advances the complexity of societal challenges grows necessitating intelligent solutions that can adapt and evolve However developing such solutions requires a deep understanding of computational intelligence CI and its application in addressing real world problems Moreover ethical considerations surrounding AI such as bias and accountability are crucial to ensure responsible development and deployment of intelligent systems Open AI and Computational Intelligence for Society 5.0 offers a comprehensive exploration of CI providing insights into intelligent systems theory design and application This book is a practical guide for scientists engineers and researchers seeking to develop thoughtful solutions for complex societal issues Integrating disruptive technologies and frameworks illuminates the

path toward creating intelligent machines collaborating with humans to enhance problem solving and improve quality of life

Medical Applications of Artificial Intelligence Arvin Agah, 2013-11-06 Enhanced more reliable and better understood than in the past artificial intelligence AI systems can make providing healthcare more accurate affordable accessible consistent and efficient However AI technologies have not been as well integrated into medicine as predicted In order to succeed medical and computational scientists must develop hybrid systems that can effectively and efficiently integrate the experience of medical care professionals with capabilities of AI systems After providing a general overview of artificial intelligence concepts tools and techniques Medical Applications of Artificial Intelligence reviews the research focusing on state of the art projects in the field The book captures the breadth and depth of the medical applications of artificial intelligence exploring new developments and persistent challenges

Internet of Behavior-Based Computational Intelligence for Smart Education Systems Ouaisa, Mariya, Ouaisa, Mariyam, Lamaazi, Hanane, El Hamlaoui, Mahmoud, Reddy C., Kishor Kumar, 2024-10-11 Smart education is transforming the way we teach and learn by incorporating advanced technologies that enhance interactivity personalization and efficiency By integrating digital tools data analytics and innovative strategies it can better address the needs of 21st century learners Central to this shift is the Internet of Behavior IoB As IoT grows it collects behavior related data and combines that data analysis with intelligent systems While this fusion enhances personalized learning it also raises important concerns about privacy security and ethics Internet of Behavior Based Computational Intelligence for Smart Education Systems explores the intricacies of how IoB and computational intelligence are transforming education It offers practical insights and theoretical foundations on how behavioral data can create smarter more adaptive learning environments Targeting educators technologists and researchers the book delves into the latest developments at the intersection of technology and education guiding readers toward more personalized efficient and effective learning systems

Intelligent Systems and Sustainable Computational Models Rajganesh Nagarajan, Senthil Kumar Narayanasamy, Ramkumar Thirunavukarasu, Pethuru Raj, 2024-06-03 The fields of intelligent systems and sustainability have been gaining momentum in the research community They have drawn interest in such research fields as computer science information technology electrical engineering and other associated engineering disciplines The promise of intelligent systems applied to sustainability is becoming a reality due to the recent advancements in the Internet of Things IoT Artificial Intelligence Big Data blockchain deep learning and machine learning The emergence of intelligent systems has given rise to a wide range of techniques and algorithms using an ensemble approach to implement novel solutions for complex problems associated with sustainability Intelligent Systems and Sustainable Computational Models Concepts Architecture and Practical Applications explores this ensemble approach towards building a sustainable future It explores novel solutions for such pressing problems as smart healthcare ecosystems energy efficient distributed computing affordable renewable resources mitigating financial risks monitoring environmental degradation and balancing climate conditions The

book helps researchers to apply intelligent systems to computational sustainability models to propose efficient methods techniques and tools The book covers such areas as Intelligent and adaptive computing for sustainable energy water and transportation networks Blockchain for decentralized systems for sustainable applications systems and infrastructure IoT for sustainable critical infrastructure Explainable AI XAI and decision making models for computational sustainability Sustainable development using edge computing fog computing and cloud computing Cognitive intelligent systems for e learning Artificial Intelligence and machine learning for large scale data Green computing and cyber physical systems Real time applications in healthcare agriculture smart cities and smart governance By examining how intelligent systems can build a sustainable society the book presents systems solutions that can benefit researchers and professionals in such fields as information technology health energy agricultural manufacturing and environmental protection

Explainable AI for Evolutionary Computation Niki van Stein, Anna V. Kononova, 2025-05-02 This book explores the intersection between explainable artificial intelligence XAI and evolutionary computation EC In recent years the fields of XAI and EC have emerged as vital areas of study within the broader domain of artificial intelligence and computational intelligence XAI seeks to address the pressing demand for transparency and interpretability in AI systems enabling their decision making processes to be scrutinised and trusted Meanwhile EC offers robust solutions to complex optimisation problems across diverse and challenging domains drawing upon the principles of natural evolution While each field has made significant contributions independently their intersection remains an underexplored area rich with transformative potential This book charts a path towards advancing computational systems that are transparent reliable and ethically sound It aims to bridge the gap between XAI and EC by presenting a comprehensive exploration of methodologies applications and case studies that highlight the synergies between these fields This book will serve as both a resource and an inspiration encouraging researchers and practitioners within XAI and EC as well as those from adjacent disciplines to collaborate and drive the development of intelligent computational systems that are not only powerful but also inherently trustworthy

Artificial Intelligence, Evolutionary Computing and Metaheuristics Xin-She Yang, 2012-07-27 Alan Turing pioneered many research areas such as artificial intelligence computability heuristics and pattern formation Nowadays at the information age it is hard to imagine how the world would be without computers and the Internet Without Turing's work especially the core concept of Turing Machine at the heart of every computer mobile phone and microchip today so many things on which we are so dependent would be impossible 2012 is the Alan Turing year a centenary celebration of the life and work of Alan Turing To celebrate Turing's legacy and follow the footsteps of this brilliant mind we take this golden opportunity to review the latest developments in areas of artificial intelligence evolutionary computation and metaheuristics and all these areas can be traced back to Turing's pioneer work Topics include Turing test Turing machine artificial intelligence cryptography software testing image processing neural networks nature inspired algorithms such as bat algorithm and cuckoo search and multiobjective

optimization and many applications These reviews and chapters not only provide a timely snapshot of the state of art developments but also provide inspiration for young researchers to carry out potentially ground breaking research in the active diverse research areas in artificial intelligence cryptography machine learning evolutionary computation and nature inspired metaheuristics This edited book can serve as a timely reference for graduates researchers and engineers in artificial intelligence computer sciences computational intelligence soft computing optimization and applied sciences

Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen

,2009 **Evolutionary Computation, Machine Learning and Data Mining in Bioinformatics** Elena Marchiori,Jason H. Moore,Jagath C. Rajapakse,2007-06-21 This book constitutes the refereed proceedings of the 5th European Conference on Evolutionary Computation Machine Learning and Data Mining in Bioinformatics EvoBIO 2007 held in Valencia Spain April 2007 Coverage brings together experts in computer science with experts in bioinformatics and the biological sciences It presents contributions on fundamental and theoretical issues along with papers dealing with different applications areas

Artificial Intelligence for Intelligent Systems Inam Ullah Khan,Mariya Ouaisa,Mariyam Ouaisa,Muhammad Fayaz,Rehmat Ullah,2024-07-31 The aim of this book is to highlight the most promising lines of research using new enabling technologies and methods based on AI ML techniques to solve issues and challenges related to intelligent and computing systems Intelligent computing easily collects data using smart technological applications like IoT based wireless networks digital healthcare transportation blockchain 5 0 industry and deep learning for better decision making AI enabled networks will be integrated in smart cities concept for interconnectivity Wireless networks will play an important role The digital era of computational intelligence will change the dynamics and lifestyle of human beings Future networks will be introduced with the help of AI technology to implement cognition in real world applications Cyber threats are dangerous to encode information from network Therefore AI Intrusion detection systems need to be designed for identification of unwanted data traffic This book Provides a better understanding of artificial intelligence based applications for future smart cities Presents a detailed understanding of artificial intelligence tools for intelligent technologies Showcases intelligent computing technologies in obtaining optimal solutions using artificial intelligence Discusses energy efficient routing protocols using artificial intelligence for Flying ad hoc networks FANETs Covers machine learning based Intrusion detection system IDS for smart grid It is primarily written for senior undergraduate graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering and computer engineering

Intelligent Data Analytics for Power and Energy Systems Hasmat Malik,Md. Waseem Ahmad,D.P. Kothari,2022-02-17 This book brings together state of the art advances in intelligent data analytics as driver of the future evolution of PaE systems In the modern power and energy PaE domain the increasing penetration of renewable energy sources RES and the consequent empowerment of consumers as a central and active solution to deal with the generation and development variability are driving the PaE

system towards a historic paradigm shift The small scale diversity and especially the number of new players involved in the PaE system potentiate a significant growth of generated data Moreover advances in communication between IoT devices and M2M machine to machine man to machine etc and digitalization hugely increased the volume of data that results from PaE components installations and systems operation This data is becoming more and more important for PaE systems operation maintenance planning and scheduling with relevant impact on all involved entities from producers consumer s and aggregators to market and system operators However although the PaE community is fully aware of the intrinsic value of those data the methods to deal with it still necessitate substantial enhancements development and research Intelligent data analytics is thereby playing a fundamental role in this domain by enabling stakeholders to expand their decision making method and achieve the awareness on the PaE environment The editors also included demonstrated codes for presented problems for better understanding for beginners

Artificial Intelligence: Theory and Applications Harish Sharma,Antorweep Chakravorty,Shahid Hussain,Rajani Kumari,2024-02-27 This book features a collection of high quality research papers presented at International Conference on Artificial Intelligence Theory and Applications AITA 2023 held during 11 12 August 2023 in Bengaluru India The book is divided into two volumes and presents original research and review papers related to artificial intelligence and its applications in various domains including health care finance transportation education and many more

Applications of Evolutionary Computation Giovanni Squillero,Kevin Sim,2017-04-03 The two volumes LNCS 10199 and 10200 constitute the refereed conference proceedings of the 20th European Conference on the Applications of Evolutionary Computation EvoApplications 2017 held in Amsterdam The Netherlands in April 2017 collocated with the Evo 2016 events EuroGP EvoCOP and EvoMUSART The 46 revised full papers presented together with 26 poster papers were carefully reviewed and selected from 108 submissions EvoApplications 2016 consisted of the following 13 tracks EvoBAFIN natural computing methods in business analytics and finance EvoBIO evolutionary computation machine learning and data mining in computational biology EvoCOMNET nature inspired techniques for telecommunication networks and other parallel and distributed systems EvoCOMPLEX evolutionary algorithms and complex systems EvoENERGY evolutionary computation in energy applications EvoGAMES bio inspired algorithms in games EvoIASP evolutionary computation in image analysis signal processing and pattern recognition EvoINDUSTRY nature inspired techniques in industrial settings EvoKNOW knowledge incorporation in evolutionary computation EvoNUM bio inspired algorithms for continuous parameter optimization EvoPAR parallel implementation of evolutionary algorithms EvoROBOT evolutionary robotics EvoSET nature inspired algorithms in software engineering and testing and EvoSTOC evolutionary algorithms in stochastic and dynamic environments

Artificial Intelligence and Evolutionary Computations in Engineering Systems Subhransu Sekhar Dash,Paruchuri Chandra Babu Naidu,Ramazan Bayindir,Swagatam Das,2018-03-19 The book is a collection of high quality peer reviewed research papers presented in the International Conference on Artificial Intelligence and Evolutionary

Computations in Engineering Systems ICAIECES 2017 The book discusses wide variety of industrial engineering and scientific applications of the emerging techniques Researchers from academia and industry have presented their original work and ideas information techniques and applications in the field of communication computing and power technologies

Artificial Intelligence, Machine Learning and User Interface Design Abhijit Banubakode, Sunita Dhotre, Chhaya S. Gosavi, G. S. Mate, Nuzhat Faiz Shaikh, Sandhya Arora, 2024-05-10 Artificial Intelligence Machine Learning and User Interface Design is a forward thinking compilation of reviews that explores the intersection of Artificial Intelligence AI Machine Learning ML and User Interface UI design The book showcases recent advancements emerging trends and the transformative impact of these technologies on digital experiences and technologies The editors have compiled 14 multidisciplinary topics contributed by over 40 experts covering foundational concepts of AI and ML and progressing through intricate discussions on recent algorithms and models Case studies and practical applications illuminate theoretical concepts providing readers with actionable insights From neural network architectures to intuitive interface prototypes the book covers the entire spectrum ensuring a holistic understanding of the interplay between these domains Use cases of AI and ML highlighted in the book include categorization and management of waste taste perception of tea bird species identification content based image retrieval natural language processing code clone detection knowledge representation tourism recommendation systems and solid waste management Advances in Artificial Intelligence Machine Learning and User Interface Design aims to inform a diverse readership including computer science students AI and ML software engineers UI UX designers researchers and tech enthusiasts

Evolutionary Computation David B. Fogel, 1998-05-15 Featuring copious introductory material by distinguished scientist Dr David B Fogel this formidable collection of 30 landmark papers spans the entire history of evolutionary computation from today's investigations back to its very origins more than 40 years ago Chapter by chapter Fogel highlights how early ideas have developed into current thinking and how others have been lost and await rediscovery The introductions to each chapter reflect Fogel's one on one conversations with the authors and their colleagues conducted over a period of four years Evolutionary Computation The Fossil Record provides in depth historical information and technical detail that is simply unmatched in the field This volume is complete with an extensive bibliography of related literature Evolutionary Computation The Fossil Record will be of particular interest to researchers and students in need of a comprehensive resource on this fascinating area of computer science Historians will also find the book thoroughly engaging

Computational Intelligence for Analysis of Trends in Industry 4.0 and 5.0 Joseph Bamidele Awotunde, Kamalakanta Muduli, Biswajit Brahma, 2025-06-17 Industry 4.0 and Industry 5.0 applications will revolutionize production enabling smart manufacturing machines to interact with their environments These machines will become self aware self learning and capable of real time data interpretation for self diagnosis and prevention of production issues They will also self calibrate and prioritize tasks to enhance production quality and efficiency Computational Intelligence for

Analysis of Trends in Industry 4.0 and 5.0 examines the trends in applications that merge three key disciplines Computational Intelligence (CI) Industry 4.0 and Industry 5.0 It presents solutions using industrial Internet of Things (IIoT) technologies augmented by CI based techniques modeling controls estimations applications systems and future scopes These applications use data from smart sensors processed through enhanced CI methods to make smart automation more effective Industry 4.0 integrates data and intelligent automation into manufacturing using technologies like CI Internet of Things (IoT) IIoT and cloud computing It transforms data into actionable insights for decision making and process optimization essential for modern competitive businesses managing high speed data integration in production processes Currently Industry 4.0 and Industry 5.0 are undergoing significant transformations due to advances in applying artificial intelligence (AI) big data analytics telecommunication technologies and control theory These trends are increasingly multidisciplinary integrating mechanical control and information technologies However they face technical challenges such as parametric uncertainties external disturbances sensor noise and mechanical failures To address these issues this book examines trends such as CI technologies as fuzzy logic neural networks and reinforcement learning and their application to modeling control and estimation It also covers recent advancements in IIoT sensors microcontrollers and big data analytics that further enhance CI based solutions in Industry 4.0 and Industry 5.0 systems

Progress in Artificial Intelligence Francisco Pereira, Penousal Machado, Ernesto Costa, Amílcar Cardoso, 2015-08-26 This book constitutes the refereed proceedings of the 17th Portuguese Conference on Artificial Intelligence (EPIA 2015) held in Coimbra Portugal in September 2015 The 45 revised full papers presented together with 36 revised short papers were carefully reviewed and selected from a total of 131 submissions EPIA 2015 following the standard EPIA format covers a wide range of AI topics as follows ambient intelligence and affective environments artificial intelligence in medicine artificial intelligence in transportation systems artificial life and evolutionary algorithms computational methods in bioinformatics and systems biology general artificial intelligence intelligent information systems intelligent robotics knowledge discovery and business intelligence multi agent systems theory and applications social simulation and modelling text mining and applications

Computational Intelligence and Intelligent Systems Zhenhua Li, 2009-10-05

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