

Advances in Intelligent Systems and Computing (2014)

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# Artificial Intelligence and Evolutionary Computations in Engineering Systems

 Springer

# Online Book Artificial Intelligence Evolutionary Computations Engineering

**Ana Madureira, Judite Ferreira, Zita  
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## **Online Book Artificial Intelligence Evolutionary Computations Engineering:**

### **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 Intelligence for Engineering Systems Ana Madureira,Judite Ferreira,Zita Vale,2010-11-23

Computational Intelligence for Engineering Systems provides an overview and original analysis of new developments and advances in several areas of computational intelligence Computational Intelligence have become the road map for engineers to develop and analyze novel techniques to solve problems in basic sciences such as physics chemistry and biology and engineering environmental life and social sciences The contributions are written by international experts who provide up to date aspects of the topics discussed and present recent original insights into their own experience in these fields The authors also include methods that apply to diverse fields such as manufacturing tourism power systems computer science robotics chemistry and biology Topics include Simulation and evolution of real and artificial life forms Self organization Models of communication and social behaviors Emergent collective behaviors and swarm intelligence Adaptive complex and biologically inspired systems Power Systems Web based Applications Knowledge discovery Intelligent Tutoring Systems Decision support Systems Intelligent Tutoring Systems **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 and Evolutionary Computations in Engineering Systems Subhransu Sekhar Dash,C. Lakshmi,Swagatam Das,Bijaya Ketan Panigrahi,2020-02-08 This book gathers selected papers presented at the 4th International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems held at the SRM Institute of Science and Technology Kattankulathur Chennai India from 11 to 13 April 2019 It covers advances and recent developments in various computational intelligence techniques with an emphasis on the design of communication systems In addition it shares valuable insights into advanced computational methodologies such as neural networks fuzzy systems evolutionary algorithms hybrid intelligent systems uncertain reasoning techniques and other machine learning methods and their application to decision making and problem solving in mobile and wireless communication networks     Artificial Intelligence and Machine Learning Techniques in Engineering and Management Komaragiri Srinivasa Raju,Dasika Nagesh Kumar,2025-05-21 The present book covers various facets of Artificial Intelligence Machine Learning and Fuzzy Logic It includes a brief discussion on performance indicators Classical and Advanced Machine Learning algorithms Fuzzy logic based modelling algorithms Emerging Research Areas including Blockchain recent ML techniques Evolutionary Algorithms Large Language Model LLM based Generative AI the Internet of Things Big Data Decision Support Systems Taguchi design of experiments data augmentation and Cross Validation and representative case studies The appendix covers representative AI tools data sources books and journals on AI The present book can support undergraduate postgraduate and Ph D students in Artificial Intelligence Generative Artificial Intelligence Machine Learning Data Sciences Soft Computing and Fuzzy Logic in Engineering and Management and allied fields The proposed book has immense value in the interdisciplinary and cross disciplinary context     Artificial Intelligence and Evolutionary Computations in Engineering Systems S. Chandramohan,Bala Venkatesh,Subhransu Sekhar Dash,Swagatam Das,C. Sharmeeela,2022 This book gathers selected papers presented at the 6th International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems held at the Anna University Chennai India from 20 to 22 April 2020 It covers advances and recent developments in various computational intelligence techniques with an emphasis on the design of communication systems In addition it shares valuable insights into advanced computational methodologies such as neural networks fuzzy systems evolutionary algorithms hybrid intelligent systems uncertain reasoning techniques and other machine learning methods and their application to decision making and problem solving in mobile and wireless communication networks     **Knowledge Incorporation in Evolutionary Computation** Yaochu Jin,2004-10-20 Incorporation of a priori knowledge such as expert knowledge meta heuristics and human preferences as well as domain knowledge acquired during evolutionary search into evolutionary algorithms has received increasing interest in the recent years It has been shown from various motivations that knowledge incorporation into evolutionary search is able to significantly improve search efficiency However results on knowledge incorporation in evolutionary computation have been scattered in a wide range of research areas and a systematic handling

of this important topic in evolutionary computation still lacks This edited book is a first attempt to put together the state of art and recent advances on knowledge incorporation in evolutionary computation within a unified framework Existing methods for knowledge incorporation are divided into the following five categories according to the functionality of the incorporated knowledge in the evolutionary algorithms 1 Knowledge incorporation in representation population initialization combination and mutation 2 Knowledge incorporation in selection and reproduction 3 Knowledge incorporation in fitness evaluations 4 Knowledge incorporation through life time learning and human computer interactions 5 Incorporation of human preferences in multi objective evolutionary computation The intended readers of this book are graduate students researchers and practitioners in all fields of science and engineering who are interested in evolutionary computation The book is divided into six parts Part I contains one introductory chapter titled A selected introduction to evolutionary computation by Yao which presents a concise but insightful introduction to evolutionary computation

***Comprehensive Metaheuristics*** Ali Mirjalili, Amir Hossein Gandomi, 2023-01-31 *Comprehensive Metaheuristics Algorithms and Applications* presents the foundational underpinnings of metaheuristics and a broad scope of algorithms and real world applications across a variety of research fields The book starts with fundamentals mathematical prerequisites and conceptual approaches to provide readers with a solid foundation After presenting multi objective optimization constrained optimization and problem formation for metaheuristics world renowned authors give readers in depth understanding of the full spectrum of algorithms and techniques Scientists researchers academicians and practitioners who are interested in optimizing a process or procedure to achieve a goal will benefit from the case studies of real world applications from different domains The book takes a much needed holistic approach putting the most widely used metaheuristic algorithms together with an in depth treatise on multi disciplinary applications of metaheuristics Each algorithm is thoroughly analyzed to observe its behavior providing a detailed tutorial on how to solve problems using metaheuristics New case studies and research problem statements are also discussed which will help researchers in their application of the concepts Presented by world renowned researchers and practitioners in metaheuristics Includes techniques algorithms and applications based on real world case studies Presents the methodology for formulating optimization problems for metaheuristics Provides readers with methods for analyzing and tuning the performance of a metaheuristic as well as for integrating metaheuristics in other AI techniques Features online complementary source code from the applications and algorithms

**Driving Socio-Economic Growth With AI and Blockchain** Gwala, Ranson Sifiso, 2025-03-14 In an era of rapid technological advancement artificial intelligence AI and blockchain emerge as powerful catalysts for driving socio economic growth These innovations reshape industries streamline processes and unlock new opportunities for economic development AI enhances productivity and innovation across sectors like healthcare finance and education Meanwhile blockchain's decentralized and secure practices transform industries by ensuring transparency reducing fraud and enabling efficient transactions Together AI and blockchain

have the potential to create a more equitable and successful society by fostering inclusive growth driving job creation and improving access to essential services Further exploration into how these technologies are driving socio economic progress may highlight their impact on global economies and the future of work Driving Socio Economic Growth With AI and Blockchain examines the applications of blockchain technology and AI as catalysts for social and economic development It discusses the use of these technologies in reaching sustainable development goals SDGs and increasing global economic growth This book covers topics such as data science financial technology and sociology and is a useful resource for data scientists economists sociologists computer engineers academicians and researchers

Computational Intelligence: A Compendium John Fulcher,2008-05-28 Computational Intelligence A Compendium presents a well structured overview about this rapidly growing field with contributions from leading experts in Computational Intelligence The main focus of the compendium is on applied methods tried and proven as being effective to realworld problems which is especially useful for practitioners researchers students and also newcomers to the field This state of handbook style book has contributions by leading experts

**Machine Learning and Robot Perception** Bruno Apolloni,Ashish Ghosh,Ferda Alpaslan,Srikanta Patnaik,2005-09-14 This book presents some of the most recent research results in the area of machine learning and robot perception The chapters represent new ways of solving real world problems The book covers topics such as intelligent object detection foveated vision systems online learning paradigms reinforcement learning for a mobile robot object tracking and motion estimation 3D model construction computer vision system and user modelling using dialogue strategies This book will appeal to researchers senior undergraduate postgraduate students application engineers and scientists

*User-Centered Design Strategies for Massive Open Online Courses (MOOCs)* Mendoza-Gonzalez, Ricardo,2016-01-07 In today s society educational opportunities have evolved beyond the traditional classroom setting Most universities have implemented virtual learning environments in an effort to provide more opportunities for potential or current students seeking alternative and more affordable learning solutions User Centered Design Strategies for Massive Open Online Courses MOOCs focuses on the best practices and effective design of student interaction within virtual learning environments Highlighting strategies from human computer interaction experiences and user centered models as well as emergent approaches and implementation techniques this reference publication is designed for computer science students academics researchers instructional designers IT professionals software developers and educators interested in mobile technologies social learning and educational inclusion

Computational Intelligence for Modelling and Prediction Saman K. Halgamuge,Lipo Wang,2005-09-02 The application of Computational Intelligence in emerging research areas such as Granular Computing Mechatronics and Bioinformatics shows its usefulness often emphasized by Prof Lotfi Zadeh the inventor of fuzzy logic and many others This book contains recent advances in Computational Intelligence methods for modeling optimization and prediction and covers a large number of applications The book presents new Computational Intelligence theory and methods

for modeling and prediction The range of the various applications is captured with 5 chapters in image processing 2 chapters in audio processing 3 chapters in commerce and finance 2 chapters in communication networks and 6 chapters containing other applications

**Wireless Sensor Networks** Damodar Reddy Edla, Mahesh Chowdary Kongara, Amruta Lipare, Venkatanaresbhabu Kuppili, Kannadasan K, 2020-11-23 Wireless Sensor Networks Evolutionary Algorithms for Optimizing Performance provides an integrative overview of bio inspired algorithms and their applications in the area of Wireless Sensor Networks WSN Along with the usage of the WSN the number of risks and challenges occurs while deploying any WSN Therefore to defeat these challenges some of the bio inspired algorithms are applied and discussed in this book Discussion includes a broad integrated perspective on various challenges and issues in WSN and also impact of bio inspired algorithms on the lifetime of the WSN It creates interdisciplinary theory concepts definitions models and findings involved in WSN and Bio inspired algorithms making it an essential guide and reference It includes various WSN examples making the book accessible to a broader interdisciplinary readership The book offers comprehensive coverage of the most essential topics including Evolutionary algorithms Swarm intelligence Hybrid algorithms Energy efficiency in WSN Load balancing of gateways Localization Clustering and routing Designing fitness functions according to the issues in WSN The book explains about practices of shuffled complex evolution algorithm shuffled frog leaping algorithm particle swarm optimization and dolphin swarm optimization to defeat various challenges in WSN The author elucidates how we must transform our thinking illuminating the benefits and opportunities offered by bio inspired approaches to innovation and learning in the area of WSN This book serves as a reference book for scientific investigators who shows an interest in evolutionary computation and swarm intelligence as well as issues and challenges in WSN

*Springer Handbook of Computational Intelligence* Janusz Kacprzyk, Witold Pedrycz, 2015-05-28 The Springer Handbook for Computational Intelligence is the first book covering the basics the state of the art and important applications of the dynamic and rapidly expanding discipline of computational intelligence This comprehensive handbook makes readers familiar with a broad spectrum of approaches to solve various problems in science and technology Possible approaches include for example those being inspired by biology living organisms and animate systems Content is organized in seven parts foundations fuzzy logic rough sets evolutionary computation neural networks swarm intelligence and hybrid computational intelligence systems Each Part is supervised by its own Part Editor s so that high quality content as well as completeness are assured

Computational Intelligence Mircea Gh. Negoita, Daniel Neagu, Vasile Palade, 2005-02-17 Hybrid Intelligent Systems has become an important research topic in computer science and a key application field in science and engineering This book offers a gentle introduction to the engineering aspects of hybrid intelligent systems also emphasizing the interrelation with the main intelligent technologies such as genetic algorithms evolutionary computation neural networks fuzzy systems evolvable hardware DNA computing artificial immune systems A unitary whole of theory and application the book provides readers with the fundamentals

background information and practical methods for building a hybrid intelligent system. It treats a panoply of applications including many in industry, educational systems, forecasting, financial engineering, and bioinformatics. This volume is useful to newcomers in the field because it quickly familiarizes them with engineering elements of developing hybrid intelligent systems and a wide range of real applications including non-industrial applications. Researchers, developers, and technically oriented managers can use the book for developing both new hybrid intelligent systems, approaches, and new applications requiring the hybridization of the typical tools and concepts to computational intelligence.

**The Evolution of Computation in Architecture** Michael Fox, Bradley Bell, 2024-10-31 This book is the first comprehensive overview of the pioneering works, events, and people that contributed to the paradigm shift defined by computation in architecture. Only recently has computation fostered profound new ways of designing, fabricating, constructing, and thinking about architecture. While the profession sits at the end of the beginning of this historically transformative shift, it is now possible to look back upon the rapidly maturing landscape of projects, influencers, and tools that have finally begun to catch up with the visionary thinking of the past. Readers are guided through the fascinating and fast-paced historical timeline of the development of computation in architecture. Beginning with an account of the pioneering futuristic thinkers, the authors then guide the reader through the birth of computation, the appropriation of tools, and the impact of experimentation on the profession, leading into the legitimacy of research and how paradigms have been expanded. The examples and influences are presented in a way that they can be understood and built upon. This book is a must-read for students of computation in architecture as well as researchers and practicing architects thinking about how the tools we use and the ways we design our buildings and environments with them can truly impact our lives.

**Applied Machine Learning for Data Science Practitioners** Vidya Subramanian, 2025-04-01 A single volume reference on data science techniques for evaluating and solving business problems using Applied Machine Learning. ML Applied Machine Learning for Data Science Practitioners offers a practical step-by-step guide to building end-to-end ML solutions for real-world business challenges, empowering data science practitioners to make informed decisions and select the right techniques for any use case. Unlike many data science books that focus on popular algorithms and coding, this book takes a holistic approach. It equips you with the knowledge to evaluate a range of techniques and algorithms. The book balances theoretical concepts with practical examples to illustrate key concepts, derive insights, and demonstrate applications. In addition to code snippets and reviewing output, the book provides guidance on interpreting results. This book is an essential resource if you are looking to elevate your understanding of ML and your technical capabilities, combining theoretical and practical coding examples. A basic understanding of using data to solve business problems, high school level math and statistics, and basic Python coding skills are assumed. Written by a recognized data science expert, Applied Machine Learning for Data Science Practitioners covers essential topics including Data Science Fundamentals that provide you with an overview of core concepts, laying the foundation for understanding ML Data.



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**Intelligent Data Mining** Da Ruan,Guoqing Chen,Etienne E. Kerre,Geert Wets,2005-08-24 Intelligent Data Mining Techniques and Applications is an organized edited collection of contributed chapters covering basic knowledge for intelligent systems and data mining applications in economic and management industrial engineering and other related industrial applications The main objective of this book is to gather a number of peer reviewed high quality contributions in the relevant topic areas The focus is especially on those chapters that provide theoretical analytical solutions to the problems of real interest in intelligent techniques possibly combined with other traditional tools for data mining and the corresponding applications to engineers and managers of different industrial sectors Academic and applied researchers and research students working on data mining can also directly benefit from this book

**Bio-Inspired Computational Algorithms and Their Applications** Shangce Gao,2012-03-07 Bio inspired computational algorithms are always hot research topics in artificial intelligence communities Biology is a bewildering source of inspiration for the design of intelligent artifacts that are capable of efficient and autonomous operation in unknown and changing environments It is difficult to resist the fascination of creating artifacts that display elements of lifelike intelligence thus needing techniques for control optimization prediction security design and so on Bio Inspired Computational Algorithms and Their Applications is a compendium that addresses this need It integrates contrasting techniques of genetic algorithms artificial immune systems particle swarm optimization and hybrid models to solve many real world problems The works presented in this book give insights into the creation of innovative improvements over algorithm performance potential applications on various practical tasks and combination of different techniques The book provides a reference to researchers practitioners and students in both artificial intelligence and engineering communities forming a foundation for the development of the field

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