

PRACTICAL  
APPLICATIONS  
OF  
COMPUTATIONAL  
INTELLIGENCE  
TECHNIQUES

edited by  
Lakhmi Jain  
Philippe De Wilde

INTERNATIONAL SERIES IN INTELLIGENT TECHNOLOGIES

# Practical Applications Of Computational Intelligence Techniques

**Ajith Abraham**



## **Practical Applications Of Computational Intelligence Techniques:**

*Practical Applications of Computational Intelligence Techniques* Lakhmi Jain, Philippe De Wilde, 2012-12-06

Computational intelligence paradigms have attracted the growing interest of researchers scientists engineers and application engineers in a number of everyday applications These applications are not limited to any particular field and include engineering business banking and consumer electronics Computational intelligence paradigms include artificial intelligence artificial neural networks fuzzy systems and evolutionary computing Artificial neural networks can mimic the biological information processing mechanism in a very limited sense Evolutionary computing algorithms are used for optimisation applications and fuzzy logic provides a basis for representing uncertain and imprecise knowledge Practical Applications of Computational Intelligence Techniques contains twelve chapters providing actual application of these techniques in the real world Such examples include but are not limited to intelligent household appliances aerial spray models industrial applications and medical diagnostics and practice This book will be useful to researchers practicing engineers scientists and students who are interested in developing practical applications in a computational intelligence environment

*Practical Applications of Computational Intelligence for Adaptive Control* Charles Karr, 1999-04-12 Written as a result of a seven year research project using computational intelligence techniques for solving mineral processing problems at the U S Bureau of Mines this book is about intelligent adaptive process control It brings together ideas from the field of computational intelligence a part of the larger field of artificial intelligence including fuzzy mathematics genetic algorithms and neural networks and uses these ideas to develop a generic architecture for accomplishing adaptive process control In the development of this architecture the requisite tools are described and then demonstrated on a number of problems Moreover most of the examples are of interest in industrial settings although some simple examples are provided in the beginning so that the reader can focus on technique and not be overburdened with the complexity of the problems being solved The focus of Practical Applications of Computational Intelligence for Adaptive Control is on practical applications It provides practicing engineers and scientists with the information they need to solve process control problems in industry and academia If the reader is interested in solving difficult control problems or interested in the mechanics of basic computational intelligence techniques then this book is an excellent place to start

*Advanced Computational Intelligence Paradigms in Healthcare - 3*

Margarita Sordo, Sachin Vaidya, 2008-08-20 Advanced Computational Intelligence CI paradigms are increasingly used for implementing robust computer applications to foster safety quality and efficacy in all aspects of healthcare This research book covers an ample spectrum of the most advanced applications of CI in healthcare The first chapter introduces the reader to the field of computational intelligence and its applications in healthcare In the following chapters readers will gain an understanding of effective CI methodologies in several important topics including clinical decision support decision making in medicine effectiveness cognitive categorizing in medical information system as well as intelligent pervasive healthcare

systems and agent middleware for ubiquitous computing Two chapters are devoted to imaging applications detection and classification of microcalcifications in mammograms using evolutionary neural networks and Bayesian methods for segmentation of medical images The final chapters cover key aspects of healthcare including computational intelligence in music processing for blind people and ethical healthcare agents This book will be of interest to postgraduate students professors and practitioners in the areas of intelligent systems and healthcare

**Advancing Computational Intelligence Techniques for Security Systems Design** Uzzal Sharma,Parmanand Astya,Anupam Baliyan,Salah-ddine Krit,Vishal Jain,Mohammad Zubair Khan,2022-08-24 Security systems have become an integral part of the building and large complex setups and intervention of the computational intelligence CI paradigm plays an important role in security system architecture This book covers both theoretical contributions and practical applications in security system design by applying the Internet of Things IoT and CI It further explains the application of IoT in the design of modern security systems and how IoT blended with computational intelligence can make any security system improved and realizable Key features Focuses on the computational intelligence techniques of security system design Covers applications and algorithms of discussed computational intelligence techniques Includes convergence based and enterprise integrated security systems with their applications Explains emerging laws policies and tools affecting the landscape of cyber security Discusses application of sensors toward the design of security systems This book will be useful for graduate students and researchers in electrical computer engineering security system design and engineering

**Computational Intelligence Applications for Software Engineering Problems** Parma Nand,Nitin Rakesh,Arun Prakash Agrawal,Vishal Jain,2023-02-10 This new volume explores the computational intelligence techniques necessary to carry out different software engineering tasks Software undergoes various stages before deployment such as requirements elicitation software designing software project planning software coding and software testing and maintenance Every stage is bundled with a number of tasks or activities to be performed Due to the large and complex nature of software these tasks can become costly and error prone This volume aims to help meet these challenges by presenting new research and practical applications in intelligent techniques in the field of software engineering Computational Intelligence Applications for Software Engineering Problems discusses techniques and presents case studies to solve engineering challenges using machine learning deep learning fuzzy logic based computation statistical modeling invasive weed meta heuristic algorithms artificial intelligence the DevOps model time series forecasting models and more

**Computational Intelligence in Software Modeling** Vishal Jain,Jyotir Moy Chatterjee,Ankita Bansal,Utku Kose,Abha Jain,2022-02-21 Researchers academicians and professionals expone in this book their research in the application of intelligent computing techniques to software engineering As software systems are becoming larger and complex software engineering tasks become increasingly costly and prone to errors Evolutionary algorithms machine learning approaches meta heuristic algorithms and others techniques can help the efficiency of software engineering

**Computational Intelligence**

**for Cybersecurity Management and Applications** Yassine Maleh, Mamoun Alazab, Soufyane Mounir, 2023-04-28 As cyberattacks continue to grow in complexity and number computational intelligence is helping under resourced security analysts stay one step ahead of threats Drawing on threat intelligence from millions of studies blogs and news articles computational intelligence techniques such as machine learning and automatic natural language processing quickly provide the means to identify real threats and dramatically reduce response times The book collects and reports on recent high quality research addressing different cybersecurity challenges It explores the newest developments in the use of computational intelligence and AI for cybersecurity applications provides several case studies related to computational intelligence techniques for cybersecurity in a wide range of applications smart health care blockchain cyber physical system etc integrates theoretical and practical aspects of computational intelligence for cybersecurity so that any reader from novice to expert may understand the book s explanations of key topics It offers comprehensive coverage of the essential topics including machine learning and deep learning for cybersecurity blockchain for cybersecurity and privacy security engineering for cyber physical systems AI and data analytics techniques for cybersecurity in smart systems trust in digital systems This book discusses the current state of the art and practical solutions for the following cybersecurity and privacy issues using artificial intelligence techniques and cutting edge technology Readers interested in learning more about computational intelligence techniques for cybersecurity applications and management will find this book invaluable They will get insight into potential avenues for future study on these topics and be able to prioritize their efforts better

**Applied Computational Intelligence and Soft Computing in Engineering** Khalid, Saifullah, 2017-09-13 Although computational intelligence and soft computing are both well known fields using computational intelligence and soft computing in conjunction is an emerging concept This combination can effectively be used in practical areas of various fields of research Applied Computational Intelligence and Soft Computing in Engineering is an essential reference work featuring the latest scholarly research on the concepts paradigms and algorithms of computational intelligence and its constituent methodologies such as evolutionary computation neural networks and fuzzy logic Including coverage on a broad range of topics and perspectives such as cloud computing sampling in optimization and swarm intelligence this publication is ideally designed for engineers academicians technology developers researchers and students seeking current research on the benefits of applying computational intelligence techniques to engineering and technology , *Computational Management* Srikanta Patnaik, Kayhan Tajeddini, Vipul Jain, 2021-05-29 This book offers a timely review of cutting edge applications of computational intelligence to business management and financial analysis It covers a wide range of intelligent and optimization techniques reporting in detail on their application to real world problems relating to portfolio management and demand forecasting decision making knowledge acquisition and supply chain scheduling and management

Machine Learning and the Internet of Things in Education John Bush Idoko, Rahib Abiyev, 2023-09-30 This book is designed to provide

rich research hub for researchers teachers and students to ease research hassle challenges The book is rich and comprehensive enough to provide answers to frequently asked research questions because the content of the book touches several disciplines cutting across computing engineering medicine education and sciences in general The rich multidisciplinary contents of the book promise to leave all users satisfied The valuable features in the book include but not limited to demonstration of mathematical expressions for implementation of machine learning models integration of learning techniques and projection of future AI and IoT technologies These technologies will enable systems to be simulative predictive and self operating smart systems The primary audience of the book include but not limited to researchers teachers and postgraduate and undergraduate students in computing engineering medicine education and science fields

*Computational Intelligence Applications in Modeling and Control* Ahmad Taher Azar, Sundarapandian

Vaidyanathan, 2014-12-26 The development of computational intelligence CI systems was inspired by observable and imitable aspects of intelligent activity of human being and nature The essence of the systems based on computational intelligence is to process and interpret data of various nature so that that CI is strictly connected with the increase of available data as well as capabilities of their processing mutually supportive factors Developed theories of computational intelligence were quickly applied in many fields of engineering data analysis forecasting biomedicine and others They are used in images and sounds processing and identifying signals processing multidimensional data visualization steering of objects analysis of lexicographic data requesting systems in banking diagnostic systems expert systems and many other practical implementations This book consists of 16 contributed chapters by subject experts who are specialized in the various topics addressed in this book The special chapters have been brought out in the broad areas of Control Systems Power Electronics Computer Science Information Technology modeling and engineering applications Special importance was given to chapters offering practical solutions and novel methods for the recent research problems in the main areas of this book viz Control Systems Modeling Computer Science IT and engineering applications This book will serve as a reference book for graduate students and researchers with a basic knowledge of control theory computer science and soft computing techniques The resulting design procedures are emphasized using Matlab Simulink software

*Smart Information Systems* Frank Hopfgartner, 2015-01-14

This text presents an overview of smart information systems for both the private and public sector highlighting the research questions that can be studied by applying computational intelligence The book demonstrates how to transform raw data into effective smart information services covering the challenges and potential of this approach Each chapter describes the algorithms tools measures and evaluations used to answer important questions This is then further illustrated by a diverse selection of case studies reflecting genuine problems faced by SMEs multinational manufacturers service companies and the public sector Features provides a state of the art introduction to the field integrating contributions from both academia and industry reviews novel information aggregation services discusses personalization and recommendation systems examines

sensor based knowledge acquisition services describing how the analysis of sensor data can be used to provide a clear picture of our world

Computational Intelligence, Optimization and Inverse Problems with Applications in Engineering Gustavo Mendes Platt, Xin-She Yang, Antônio José Silva Neto, 2018-09-25 This book focuses on metaheuristic methods and its applications to real world problems in Engineering The first part describes some key metaheuristic methods such as Bat Algorithms Particle Swarm Optimization Differential Evolution and Particle Collision Algorithms Improved versions of these methods and strategies for parameter tuning are also presented both of which are essential for the practical use of these important computational tools The second part then applies metaheuristics to problems mainly in Civil Mechanical Chemical Electrical and Nuclear Engineering Other methods such as the Flower Pollination Algorithm Symbiotic Organisms Search Cross Entropy Algorithm Artificial Bee Colonies Population Based Incremental Learning Cuckoo Search and Genetic Algorithms are also presented The book is rounded out by recently developed strategies or hybrid improved versions of existing methods such as the Lightning Optimization Algorithm Differential Evolution with Particle Collisions and Ant Colony Optimization with Dispersion state of the art approaches for the application of computational intelligence to engineering problems The wide variety of methods and applications as well as the original results to problems of practical engineering interest represent the primary differentiation and distinctive quality of this book Furthermore it gathers contributions by authors from four countries some of which are the original proponents of the methods presented and 18 research centers around the globe

Computational Intelligence and Optimization Methods for Control Engineering Maude Josée Blondin, Panos M. Pardalos, Javier Sanchis Sáez, 2019-09-20 This volume presents some recent and principal developments related to computational intelligence and optimization methods in control Theoretical aspects and practical applications of control engineering are covered by 14 self contained contributions Additional gems include the discussion of future directions and research perspectives designed to add to the reader's understanding of both the challenges faced in control engineering and the insights into the developing of new techniques With the knowledge obtained readers are encouraged to determine the appropriate control method for specific applications

Computational Intelligence in Information Assurance and Security Ajith Abraham, 2007-05-04 This volume provides the academic and industrial community with a medium for presenting original research and applications related to information assurance and security using computational intelligence techniques It details current research on information assurance and security regarding both the theoretical and methodological aspects as well as various applications in solving real world problems using computational intelligence

**Computational Intelligence in Control** Masoud Mohammadian, Xin Yao, 2003 The problem of controlling uncertain dynamic systems which are subject to external disturbances uncertainty and sheer complexity is of considerable interest in computer science operations research and business domains Computational Intelligence in Control is a repository for the theory and applications of intelligent systems techniques

*Intelligent Control Systems Using Computational Intelligence*

*Techniques* A.E. Ruano, 2005-07-18 Intelligent Control techniques are becoming important tools in both academia and industry Methodologies developed in the field of soft computing such as neural networks fuzzy systems and evolutionary computation can lead to accommodation of more complex processes improved performance and considerable time savings and cost reductions Intelligent Control Systems using Computational Intelligence Techniques details the application of these tools to the field of control systems Each chapter gives an overview of current approaches in the topic covered with a set of the most important references in the field and then details the author's approach examining both the theory and practical applications

**New Frontiers in Computational Intelligence and Its Applications** Masoud

Mohammadian, 2000

Computational Intelligence for Optimization Nirwan Ansari, Edwin Hou, 1996-12-31

The field of optimization is interdisciplinary in nature and has been making a significant impact on many disciplines As a result it is an indispensable tool for many practitioners in various fields Conventional optimization techniques have been well established and widely published in many excellent textbooks However there are new techniques such as neural networks simulated annealing stochastic machines mean field theory and genetic algorithms which have been proven to be effective in solving global optimization problems This book is intended to provide a technical description on the state of the art development in advanced optimization techniques specifically heuristic search neural networks simulated annealing stochastic machines mean field theory and genetic algorithms with emphasis on mathematical theory implementation and practical applications The text is suitable for a first year graduate course in electrical and computer engineering computer science and operational research programs It may also be used as a reference for practicing engineers scientists operational researchers and other specialists This book is an outgrowth of a couple of special topic courses that we have been teaching for the past five years In addition it includes many results from our interdisciplinary research on the topic The aforementioned advanced optimization techniques have received increasing attention over the last decade but relatively few books have been produced

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