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Sanaz Mostaghim ·
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Computational Intelligence

A Methodological Introduction

Third Edition

Springer

Computational Intelligence A Methodological Introduction Texts In Computer Science

Ahmed A. Elngar,Rajdeep Chowdhury,Mohamed Elhoseny,Valentina Emilia Balas

Computational Intelligence A Methodological Introduction Texts In Computer Science:

Computational Intelligence Rudolf Kruse,Christian Borgelt,Christian Braune,Sanaz Mostaghim,Matthias Steinbrecher,2016-09-16 This textbook provides a clear and logical introduction to the field covering the fundamental concepts algorithms and practical implementations behind efforts to develop systems that exhibit intelligent behavior in complex environments This enhanced second edition has been fully revised and expanded with new content on swarm intelligence deep learning fuzzy data analysis and discrete decision graphs Features provides supplementary material at an associated website contains numerous classroom tested examples and definitions throughout the text presents useful insights into all that is necessary for the successful application of computational intelligence methods explains the theoretical background underpinning proposed solutions to common problems discusses in great detail the classical areas of artificial neural networks fuzzy systems and evolutionary algorithms reviews the latest developments in the field covering such topics as ant colony optimization and probabilistic graphical models **Computational Intelligence** Rudolf Kruse,Christian Borgelt,Frank Klawonn,2013-04-01 **Advanced Methodologies and Technologies in Artificial Intelligence, Computer Simulation, and Human-Computer Interaction** Khosrow-Pour, D.B.A., Mehdi,2018-09-28 As modern technologies continue to develop and evolve the ability of users to adapt with new systems becomes a paramount concern Research into new ways for humans to make use of advanced computers and other such technologies through artificial intelligence and computer simulation is necessary to fully realize the potential of tools in the 21st century Advanced Methodologies and Technologies in Artificial Intelligence Computer Simulation and Human Computer Interaction provides emerging research in advanced trends in robotics AI simulation and human computer interaction Readers will learn about the positive applications of artificial intelligence and human computer interaction in various disciples such as business and medicine This book is a valuable resource for IT professionals researchers computer scientists and researchers invested in assistive technologies artificial intelligence robotics and computer simulation **Internet of Behavior-Based Computational Intelligence for Smart Education Systems** Ouaissa, Mariya,Ouaissa, 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   Computational Intelligence for Water and Environmental Sciences Omid Bozorg-Haddad,Babak Zolghadr-Asli,2022-07-08 This book provides a comprehensive yet fresh perspective for the cutting edge CI oriented approaches in water resources planning and management The book takes a deep dive into topics like meta heuristic evolutionary optimization algorithms e g GA PSA etc data mining techniques e g SVM ANN etc probabilistic and Bayesian oriented frameworks fuzzy logic AI deep learning and expert systems These approaches provide a practical approach to understand and resolve complicated and intertwined real world problems that often imposed serious challenges to traditional deterministic precise frameworks The topic caters to postgraduate students and senior researchers who are interested in computational intelligence approach to issues stemming from water and environmental sciences

Intelligent Communication Networks Rajarshi Mahapatra,Siddhartha Bhattacharyya,Avishek Nag,2024-06-06 With the advent of Big Data conventional communication networks are often limited in their inability to handle complex and voluminous data and information as far as effective processing transmission and reception are concerned This book discusses the evolution of computational intelligence techniques in handling intelligent communication networks Provides a detailed theoretical foundation of machine learning and computational intelligence algorithms Highlights the state of art machine learning based solutions for communication networks Presents video demonstrations and code snippets on each chapter for easy understanding of the concepts Discusses applications including resource allocation spectrum management channel estimation and physical layer of wireless networks Demonstrates applications of machine learning techniques for optical networks The text is primarily intended for senior undergraduate and graduate students and academic researchers in fields of electrical engineering electronics and communication engineering and computer engineering   **Information Quality in Information Fusion and Decision Making** Éloi Bossé,Galina L. Rogova,2019-04-02 This book presents a contemporary view of the role of information quality in information fusion and decision making and provides a formal foundation and the implementation strategies required for dealing with insufficient information quality in building fusion systems for decision making Information fusion is the process of gathering processing and combining large amounts of information from multiple and diverse sources including physical sensors to human intelligence reports and social media That data and information may be unreliable of low fidelity insufficient resolution contradictory fake and or redundant Sources may provide unverified reports obtained from other sources resulting in correlations and biases The success of the fusion processing depends on how well knowledge produced by the processing chain represents reality which in turn depends on how adequate data are how good and adequate are the models used and how accurate appropriate or applicable prior and contextual knowledge is By offering contributions by leading experts this book provides an unparalleled understanding of the problem of information quality in information fusion and decision making for researchers and professionals in the field   *Applications of*

Computational Intelligence in Multi-Disciplinary Research Ahmed A. Elngar,Rajdeep Chowdhury,Mohamed Elhoseny,Valentina Emilia Balas,2022-02-14 Applications of Computational Intelligence in Multi Disciplinary Research provides the readers with a comprehensive handbook for applying the powerful principles concepts and algorithms of computational intelligence to a wide spectrum of research cases The book covers the main approaches used in computational intelligence including fuzzy logic neural networks evolutionary computation learning theory and probabilistic methods all of which can be collectively viewed as soft computing Other key approaches included are swarm intelligence and artificial immune systems These approaches provide researchers with powerful tools for analysis and problem solving when data is incomplete and when the problem under consideration is too complex for standard mathematics and the crisp logic approach of Boolean computing Provides an overview of the key methods of computational intelligence including fuzzy logic neural networks evolutionary computation learning theory and probabilistic methods Includes case studies and real world examples of computational intelligence applied in a variety of research topics including bioinformatics biomedical engineering big data analytics information security signal processing machine learning nanotechnology and optimization techniques Presents a thorough technical explanation on how computational intelligence is applied that is suitable for a wide range of multidisciplinary and interdisciplinary research   *Recent Developments and the New Direction in Soft-Computing Foundations and Applications* Shahnaz N. Shahbazova,Janusz Kacprzyk,Valentina Emilia Balas,Vladik Kreinovich,2020-07-10 This book gathers authoritative contributions in the field of Soft Computing Based on selected papers presented at the 7th World Conference on Soft Computing which was held on May 29 31 2018 in Baku Azerbaijan it describes new theoretical advances as well as cutting edge methods and applications New theories and algorithms in fuzzy logic cognitive modeling graph theory and metaheuristics are discussed and applications in data mining social networks control and robotics geoscience biomedicine and industrial management are described This book offers a timely broad snapshot of recent developments including thought provoking trends and challenges that are yielding new research directions in the diverse areas of Soft Computing   *Handbook of Research on Applied Artificial Intelligence and Robotics for Government Processes* Valle-Cruz, David,Plata-Cesar, Nely,González-Ruíz, Jacobo Leonardo,2022-09-16 Artificial intelligence AI and robotics have boomed in the 21st century These emerging and disruptive technologies are immersed in our lives from apps in mobile devices the purchases we make on the internet streaming platforms and even court decisions and predictive policing Together with science and certain needs relevant implementations of AI and robotics arise related to its transparency resulting in biases the kinds of applications that can be implemented and the degree of workforce replacement in decision making assistance It is essential to analyze the widely used AI techniques the application of these technologies in different sectors the implications of AI and robotics on society and welfare and more The Handbook of Research on Applied Artificial Intelligence and Robotics for Government Processes presents state of the art research on AI and robotics in different fields of

knowledge its benefits applications and implications It features chapters containing theoretical and practical research that analyzes the transparency and expandability of AI in different fields as well as the analysis of unexpected results biases and cases of discrimination Covering topics such as criminal intelligence artificial intelligence based chatbots and gender violence this major reference work is an excellent resource for government officials practitioners in the public sector business administrators and managers IT professionals law enforcement federal agencies students and faculty of higher education researchers and academicians **Multisensor Fusion and Integration in the Wake of Big Data, Deep Learning and Cyber Physical System** Sukhan Lee,Hanseok Ko,Songhwai Oh,2018-07-04 This book includes selected papers from the 13th IEEE International Conference on Multisensor Integration and Fusion for Intelligent Systems MFI 2017 held in Daegu Korea November 16 22 2017 It covers various topics including sensor actuator networks distributed and cloud architectures bio inspired systems and evolutionary approaches methods of cognitive sensor fusion Bayesian approaches fuzzy systems and neural networks biomedical applications autonomous land sea and air vehicles localization tracking SLAM 3D perception manipulation with multifinger hands robotics micro nano systems information fusion and sensors and multimodal integration in HCI and HRI The book is intended for robotics scientists data and information fusion scientists researchers and professionals at universities research institutes and laboratories **Computational Intelligence** Russell C. Eberhart,Yuhui Shi,2011-04-18 Computational Intelligence Concepts to Implementations provides the most complete and practical coverage of computational intelligence tools and techniques to date This book integrates various natural and engineering disciplines to establish Computational Intelligence This is the first comprehensive textbook on the subject supported with lots of practical examples It asserts that computational intelligence rests on a foundation of evolutionary computation This refreshing view has set the book apart from other books on computational intelligence This book lays emphasis on practical applications and computational tools which are very useful and important for further development of the computational intelligence field Focusing on evolutionary computation neural networks and fuzzy logic the authors have constructed an approach to thinking about and working with computational intelligence that has in their extensive experience proved highly effective The book moves clearly and efficiently from concepts and paradigms to algorithms and implementation techniques by focusing in the early chapters on the specific con It explores a number of key themes including self organization complex adaptive systems and emergent computation It details the metrics and analytical tools needed to assess the performance of computational intelligence tools The book concludes with a series of case studies that illustrate a wide range of successful applications This book will appeal to professional and academic researchers in computational intelligence applications tool development and systems Moves clearly and efficiently from concepts and paradigms to algorithms and implementation techniques by focusing in the early chapters on the specific concepts and paradigms that inform the authors methodologies Explores a number of key themes including self organization complex adaptive systems

and emergent computation Details the metrics and analytical tools needed to assess the performance of computational intelligence tools Concludes with a series of case studies that illustrate a wide range of successful applications Presents code examples in C and C Provides at the end of each chapter review questions and exercises suitable for graduate students as well as researchers and practitioners engaged in self study **Computational Intelligence in Theory and Practice** Bernd Reusch,Karl-Heinz Temme,2013-03-20 Computational Intelligence with its roots in Fuzzy Logic Neural Networks and Evolutionary Algorithms has become an important research and application field in computer science in the last decade Methodologies from these areas and combinations of them enable users from engineering business medicine and many more branches to capture and process vague incomplete uncertain and imprecise data and knowledge Many algorithms and tools have been developed to solve problems in the realms of high and low level control information processing diagnostics decision support classification optimisation and many more This book tries to show the impact and feedback between theory and applications of Computational Intelligence highlighted on selected examples *Cartography and Geographic Information Systems* ,1994 **Computational Intelligence** Andries P. Engelbrecht,2007-10-22 Computational Intelligence An Introduction Second Edition offers an in depth exploration into the adaptive mechanisms that enable intelligent behaviour in complex and changing environments The main focus of this text is centred on the computational modelling of biological and natural intelligent systems encompassing swarm intelligence fuzzy systems artificial neutral networks artificial immune systems and evolutionary computation Engelbrecht provides readers with a wide knowledge of Computational Intelligence CI paradigms and algorithms inviting readers to implement and problem solve real world complex problems within the CI development framework This implementation framework will enable readers to tackle new problems without any difficulty through a single Java class as part of the CI library Key features of this second edition include A tutorial hands on based presentation of the material State of the art coverage of the most recent developments in computational intelligence with more elaborate discussions on intelligence and artificial intelligence AI New discussion of Darwinian evolution versus Lamarckian evolution also including swarm robotics hybrid systems and artificial immune systems A section on how to perform empirical studies topics including statistical analysis of stochastic algorithms and an open source library of CI algorithms Tables illustrations graphs examples assignments Java code implementing the algorithms and a complete CI implementation and experimental framework Computational Intelligence An Introduction Second Edition is essential reading for third and fourth year undergraduate and postgraduate students studying CI The first edition has been prescribed by a number of overseas universities and is thus a valuable teaching tool In addition it will also be a useful resource for researchers in Computational Intelligence and Artificial Intelligence as well as engineers statisticians operational researchers and bioinformaticians with an interest in applying AI or CI to solve problems in their domains Check out http www ci cs up ac za for examples assignments and Java code implementing the algorithms The American Mathematical

<u>Monthly</u> ,1894 Includes articles as well as notes and other features about mathematics and the profession

    Computational Intelligence and Mathematics for Tackling Complex Problems 3 István Á. Harmati,László T. Kóczy,Jesús Medina,Eloísa Ramírez-Poussa,2021-08-25 Complex problems and systems which prevail in the real world cannot often be tackled and solved either by traditional methods offered by mathematics or even the traditional computer science CS and and artificial intelligence AI What is the way out of this dilemma Advanced methodologies and tools and techniques mimicking human reasoning or the behavior of animals animal populations or certain parts of the living bod based on traditional computer science science and the initial approaches of artificial intelligence are often referred to as biologically inspired methods or often computational intelligence CI Computational intelligence offers effective and efficient solutions to many unsolvable problems problems However it is far from being a ready to use and complete collection of approaches and is rather a continuously developing field without clear borders The emerging new models and algorithms of computational intelligence are deeply rooted in the vast apparatus of traditional mathematics Thus the investigation of connections and synergy between mathematics and computational intelligence is an eminent goal which is periodically pursued by a group of mathematicians and computational intelligence researchers who regularly attand the annual European Symposia on Computational Intelligence and Mathematics ESCIM Some relevant papers from the last ESCIM 2020 are included in this volume   *Computational Intelligence and Mathematics for Tackling Complex Problems* László T Kóczy,Jesús Medina-Moreno,Eloísa Ramírez-Poussa,Alexander Šostak,2019-05-02 This book combines computational intelligence and mathematics to solve theoretical and real world problems The real challenges of engineering and other applied sciences e g economics and management the social sciences etc and even everyday life are increasingly raising complex problems both in the usual sense but also in the mathematical and theoretical computer science sense which is referred to as intractability Finding exact solutions to the latest problems in mathematics is impossible and it has been also shown that no further technical advance will ever make it possible to find general and exact solutions to such complex problems Rather the goal is to find solutions that are good enough or acceptably accurate including models and corresponding algorithms which is most often achieved by combining traditional mathematical techniques and computational intelligence tools such as fuzzy systems evolutionary and memetic algorithms and artificial neural networks Consequently international funding programs such as the European Commission s current framework program for research and innovation Horizon 2020 and the preliminary research team building COST Actions are devoted to developing new instruments for tackling the challenges that we face in the current technological age And it goes without saying that research topics concerning the interactions between computational intelligence and traditional mathematics play a key role in overcoming the obstacles associated with the intractability of complex problems In this book mathematicians engineers and other scientists highlight novel methodological results connecting these two main research areas and focusing on solving real life problems   **Towards a Theory of Cognition**

and Computing James Gerard Wolff,1991 Comprising a selection of previously published articles together with new material this book describes a theory of knowledge developed by the author which promises new insights in cognition and computing

    Lectures on Intelligent Systems Leonardo Vanneschi,Sara Silva,2023-01-13 This textbook provides the reader with an essential understanding of computational methods for intelligent systems These are defined as systems that can solve problems autonomously in particular problems where algorithmic solutions are inconceivable for humans or not practically executable by computers Despite the rapidly growing applications in this field the book avoids application details instead focusing on computational methods that equip the reader with the methodological tools and competencies necessary to tackle current and future complex applications The book consists of two parts computational intelligence methods for optimization and machine learning Part I begins with the concept of optimization and introduces local search algorithms genetic algorithms and particle swarm optimization Part II begins with an introduction to machine learning and covers several methods many of which can be used as supervised learning algorithms such as decision tree learning artificial neural networks genetic programming Bayesian learning support vector machines and ensemble methods plus a discussion of unsupervised learning This textbook is written in a self contained style suitable for undergraduate or graduate students in computer science and engineering and for self study by researchers and practitioners

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