

Texts in Computer Science

Rudolf Kruse ·
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Computational Intelligence

A Methodological Introduction

Third Edition

 Springer

Computational Intelligence A Methodological Introduction Texts In Computer Science

Éloi Bossé, Galina L. Rogova



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

Computational Intelligence Rudolf Kruse,Sanaz Mostaghim,Christian Borgelt,Christian Braune,Matthias Steinbrecher,2022-03-26 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 third edition has been fully revised and expanded with new content on deep learning scalarization methods large scale optimization algorithms and collective decision making algorithms 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

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

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 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 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

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.

Encyclopedia of Information Science and Technology, Fourth Edition Khosrow-Pour, D.B.A., Mehdi, 2017-06-20 In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition, is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward thinking and diverse research findings. With critical perspectives on the impact of information science, management, and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library. **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

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