

Computational Intelligence in Analytics and Information Systems

Volume 2

Advances in Digital Transformation
Selected Papers from CIAIS-2021



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Proceedings of International Conference on Computational Intelligence, Data Science and Cloud Computing

Valentina E. Balas, Aboul Ella Hassanien, Satyajit Chakrabarti, Lopa Mandal, 2021-04-05 This book includes selected papers presented at International Conference on Computational Intelligence Data Science and Cloud Computing IEM ICDC 2020 organized by the Department of Information Technology Institute of Engineering Management Kolkata India during 25-27 September 2020. It presents substantial new research findings about AI and robotics, image processing and NLP, cloud computing and big data analytics, as well as in cyber security, blockchain and IoT and various allied fields. The book serves as a reference resource for researchers and practitioners in academia and industry.

Computational Intelligence, Cyber Security and Computational Models

G. Sai Sundara Krishnan, R. Anitha, R. S. Lekshmi, M. Senthil Kumar, Anthony Bonato, Manuel Graña, 2013-11-26 This book contains cutting edge research material presented by researchers, engineers, developers and practitioners from academia and industry at the International Conference on Computational Intelligence Cyber Security and Computational Models ICC3 organized by PSG College of Technology Coimbatore India during December 19-21, 2013. The materials in the book include theory and applications to provide design analysis and modeling of the key areas. The book will be useful material for students, researchers, professionals as well as academicians in understanding current research trends and findings and future scope of research in computational intelligence, cyber security and computational models.

Computational Intelligence in Industrial Application Yanglv Ling, 2015-07-28 These proceedings of the 2014 Pacific Asia Workshop on Computational Intelligence in Industrial Application CIAA 2014 include 81 peer reviewed papers. The topics covered in the book include: 1. Computer Intelligence, 2. Application of Computer Science and Communication, 3. Industrial Engineering, Product Design and Manufacturing, 4. Automation.

Computational Intelligence for Green Cloud Computing and Digital Waste Management

Kumar, K. Dinesh, Varadarajan, Vijayakumar, Nasser, Nidal, Poluru, Ravi Kumar, 2024-02-27 In the digital age, the relentless growth of data centers and cloud computing has given rise to a pressing dilemma. The power consumption of these facilities is spiraling out of control, emitting massive amounts of carbon dioxide and contributing to the ever-increasing threat of global warming. Studies show that data centers alone are responsible for nearly eighty million metric tons of CO₂ emissions worldwide, and this figure is poised to skyrocket to a staggering 8000 TWh by 2030 unless we revolutionize our approach to computing resource management. The root of this problem lies in inefficient resource allocation within cloud environments, as service providers often over-provision computing resources to avoid Service Level Agreement (SLA) violations, leading to both underutilization of resources and a significant increase in energy consumption. Computational Intelligence for Green Cloud Computing and Digital Waste Management stands as a beacon of hope in the face of the environmental and technological challenges we face. It introduces the concept of green computing, dedicated to creating an eco-friendly computing environment. The book explores innovative intelligent resource management

methods that can significantly reduce the power consumption of data centers From machine learning and deep learning solutions to green virtualization technologies this comprehensive guide explores innovative approaches to address the pressing challenges of green computing Whether you are an educator teaching about green computing an environmentalist seeking sustainability solutions an industry professional navigating the digital landscape a resolute researcher or simply someone intrigued by the intersection of technology and sustainability this book offers an indispensable resource

Progressive Computational Intelligence, Information Technology and Networking Poonam Nandal,Mamta Dahiya,Meeta Singh,Arvind Dagur,Brijesh Kumar,2025-07-22 Progressive Computational Intelligence Information Technology and Networking presents a rich and diverse collection of cutting edge research real world applications and innovative methodologies spanning across multiple domains of computer science artificial intelligence and emerging technologies This comprehensive volume brings together different scholarly chapters contributed by researchers practitioners and thought leaders from around the globe The book explores a wide array of topics including but not limited to machine learning deep learning cloud computing cybersecurity Internet of Things IoT blockchain natural language processing image processing and data analytics It addresses the practical implementation of technologies in sectors such as healthcare agriculture education smart cities environmental monitoring finance and more Each chapter delves into specific challenges frameworks and experimental outcomes making this book an essential reference for academicians researchers industry professionals and students who aim to stay ahead in the rapidly evolving digital world **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 Bio-inspired Computing: Theories and Applications Cheng He,Hongwei

Mo,Linqiang Pan,Yuxin Zhao,2017-11-10 This book constitutes the proceedings of the 12th International Conference on Bio inspired Computing Theories and Applications BIC TA 2017 held in Harbin China December 2017 The 50 full papers presented were selected from 143 submissions The papers deal with studies abstracting computing ideas such as data structures operations with data ways to control operations computing models from living phenomena or biological systems such as evolution cells tissues neural networks immune systems and ant colonies *Advances in Big Data and Cloud*

Computing J. Dinesh Peter,Amir H. Alavi,Bahman Javadi,2018-12-12 This book is a compendium of the proceedings of the International Conference on Big Data and Cloud Computing It includes recent advances in the areas of big data analytics cloud computing internet of nano things cloud security data analytics in the cloud smart cities and grids etc This volume primarily focuses on the application of the knowledge that promotes ideas for solving the problems of the society through

cutting edge technologies The articles featured in this proceeding provide novel ideas that contribute to the growth of world class research and development The contents of this volume will be of interest to researchers and professionals alike

Computational Intelligence in Data Mining Himansu Sekhar Behera,Janmenjoy Nayak,Bighnaraj Naik,Ajith Abraham,2018-07-03 The International Conference on Computational Intelligence in Data Mining ICCIDM after three successful versions has reached to its fourth version with a lot of aspiration The best selected conference papers are reviewed and compiled to form this volume The proceedings discusses the latest solutions scientific results and methods in solving intriguing problems in the fields of data mining computational intelligence big data analytics and soft computing The volume presents a sneak preview into the strengths and weakness of trending applications and research findings in the field of computational intelligence and data mining along with related field *Computational Intelligent Security in Wireless Communications* Suhel Ahmed Khan,Rajeev Kumar,Omprakash Kaiwartya,Raees Ahmad Khan,Mohammad Faisal,2023-03-21 Wireless network security research is multidisciplinary in nature including data analysis economics mathematics forensics information technology and computer science This text covers cutting edge research in computational intelligence systems from diverse fields on the complex subject of wireless communication security It discusses important topics including computational intelligence in wireless network and communications artificial intelligence and wireless communication security security risk scenarios in communications security resilience metrics and their measurements data analytics of cyber crimes modeling of wireless communication security risks advances in cyber threats and computer crimes adaptive and learning techniques for secure estimation and control decision support systems fault tolerance and diagnosis cloud forensics and information systems and intelligent information retrieval The book Discusses computational algorithms for system modeling and optimization in security perspective Focuses on error prediction and fault diagnosis through intelligent information retrieval via wireless technologies Explores a group of practical research problems where security experts can help develop new data driven methodologies Covers application on artificial intelligence and wireless communication security risk perspective The text is primarily written for senior undergraduate graduate students and researchers in the fields of electrical engineering electronics and communication engineering and computer engineering The text comprehensively discusses wide range of wireless communication techniques with emerging computational intelligent trends to help readers understand the role of wireless technologies in applications touching various spheres of human life with the help of hesitant fuzzy sets based computational modeling It will be a valuable resource for senior undergraduate graduate students and researchers in the fields of electrical engineering electronics and communication engineering and computer engineering

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web oct 15 2022 it should be noted that the ph scale does extend beyond 0 and 14 strong laboratory acids typically have ph values less than 0 negative ph values and strong

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web acids and bases are partners an acid generically represented by ha is a proton h donor whereas a base generically represented by b is a proton acceptor when

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web one type of titration uses a neutralization reaction in which an acid and a base react to produce a salt and water in equation 1 the acid is hcl hydrochloric acid and the base