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Computational Intelligence for Decision Support in Cyber-Physical Systems

Computational Intelligence For Decision Support In Cyber Physical Systems Studies In Computational Intelligence

**Theodor Borangiu,Damien
Trentesaux,André Thomas,Olivier
Cardin**



Computational Intelligence For Decision Support In Cyber Physical Systems Studies In Computational Intelligence:

Computational Intelligence for Decision Support in Cyber-Physical Systems Zeashan H Khan, A. B. M. Shawkat Ali, Zahid Riaz, 2014-02-18 This book is dedicated to applied computational intelligence and soft computing techniques with special reference to decision support in Cyber Physical Systems CPS where the physical as well as the communication segment of the networked entities interact with each other The joint dynamics of such systems result in a complex combination of computers software networks and physical processes all combined to establish a process flow at system level This volume provides the audience with an in depth vision about how to ensure dependability safety security and efficiency in real time by making use of computational intelligence in various CPS applications ranging from the nano world to large scale wide area systems of systems Key application areas include healthcare transportation energy process control and robotics where intelligent decision support has key significance in establishing dynamic ever changing and high confidence future technologies A recommended text for graduate students and researchers working on the applications of computational intelligence methods in CPS

Industrial Cyber-Physical Systems Sascha Julian Oks, 2024-03-14 Cyber physical systems CPS are one of the key concepts of Industry 4 0 Despite their great potentials for industrial value creation there are challenges such as a significant increase in complexity as a result of which the development status of Industry 4 0 is behind expectations This book addresses this issue with the following research design In addition to providing a comprehensive foundation of industrial CPS and Industry 4 0 four studies are conducted each consisting of an exploratory research part and a design science research DSR part In doing so four perspectives are directed at the topic of industrial CPS A systemic a stakeholder centered an organizational and a holistic In conclusion the contributions are integrated in a summary and the artifacts are incorporated into an overarching methodological framework Thus theoretical contributions are derived and concrete practical recommendations for the main target groups of organizations educational institutions and international delegations provided

Computational Intelligence in Industrial Application Yanglv Ling, 2015-07-28 These proceedings of the 2014 Pacific Asia Workshop on Computational Intelligence in Industrial Application CIIA 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 Automatio

Computational Intelligence for Analysis of Trends in Industry 4.0 and 5.0 Joseph Bamidele Awotunde, Kamalakanta Muduli, Biswajit Brahma, 2025-06-17 Industry 4 0 and Industry 5 0 applications will revolutionize production enabling smart manufacturing machines to interact with their environments These machines will become self aware self learning and capable of real time data interpretation for self diagnosis and prevention of production issues They will also self calibrate and prioritize tasks to enhance production quality and efficiency Computational Intelligence for Analysis of Trends in Industry 4 0 and 5 0 examines

the trends in applications that merge three key disciplines Computational Intelligence CI Industry 4.0 and Industry 5.0 It presents solutions using industrial Internet of Things IIoT technologies augmented by CI based techniques modeling controls estimations applications systems and future scopes These applications use data from smart sensors processed through enhanced CI methods to make smart automation more effective Industry 4.0 integrates data and intelligent automation into manufacturing using technologies like CI Internet of Things IoT IIoT and cloud computing It transforms data into actionable insights for decision making and process optimization essential for modern competitive businesses managing high speed data integration in production processes Currently Industry 4.0 and Industry 5.0 are undergoing significant transformations due to advances in applying artificial intelligence AI big data analytics telecommunication technologies and control theory These trends are increasingly multidisciplinary integrating mechanical control and information technologies However they face technical challenges such as parametric uncertainties external disturbances sensor noise and mechanical failures To address these issues this book examines trends such as CI technologies as fuzzy logic neural networks and reinforcement learning and their application to modeling control and estimation It also covers recent advancements in IIoT sensors microcontrollers and big data analytics that further enhance CI based solutions in Industry 4.0 and Industry 5.0 systems **Service**

Orientation in Holonic and Multi-Agent Manufacturing Theodor Borangiu, Damien Trentesaux, André Thomas, Olivier Cardin, 2018-01-31 This book gathers the peer reviewed papers presented at the seventh edition of the international workshop Service Orientation in Holonic and Multi Agent Manufacturing SOHOMA 17 held on October 19-20 2017 and organized by the University of Nantes France in collaboration with the CIMR Research Centre in Computer Integrated Manufacturing and Robotics at the University Politehnica of Bucharest Romania the LAMIH Laboratory of Industrial and Human Automation Control Mechanical Engineering and Computer Science at the University of Valenciennes and Hainaut Cambr sis France and the CRAN Research Centre for Automatic Control Nancy at the University of Lorraine France The main objective of SOHOMA 17 was to foster innovation in smart and sustainable manufacturing and logistics systems and in this context to promote concepts methods and solutions addressing trends in service orientation of agent based control technologies with distributed intelligence The book is organized in eight parts each with a number of chapters describing research in current domains of the digital transformation in manufacturing and trends in future service and computing oriented manufacturing control Part 1 Advanced Manufacturing Control Part 2 Big Data Management Part 3 Cyber Physical Production Systems Part 4 Cloud and Cyber Physical Systems for Smart and Sustainable Manufacturing Part 5 Simulation for Physical Internet and Intelligent Sustainable Logistics Systems Part 6 Formal Methods and Advanced Scheduling for Future Industrial Systems Part 7 Applications and Demonstrators Part 8 Production and Logistic Control Systems The contributions focus on how the digital transformation such as the one advocated by Industry 4.0 or Industry of the future concepts can improve the maintainability and the sustainability of manufacturing processes products and logistics Digital transformation

relates to the interaction between the physical and informational worlds and is realized by virtualization of products processes and resources managed as services

Computational Intelligence in Emerging Technologies for Engineering Applications Orestes Llanes Santiago, Carlos Cruz Corona, Antônio José Silva Neto, José Luis

Verdegay, 2020-02-14 This book explores applications of computational intelligence in key and emerging fields of engineering especially with regard to condition monitoring and fault diagnosis inverse problems decision support systems and optimization These applications can be beneficial in a broad range of contexts including water distribution networks manufacturing systems production and storage of electrical energy heat transfer acoustic levitation uncertainty and robustness of infinite dimensional objects fatigue failure prediction autonomous navigation nanotechnology and the analysis of technological development indexes All applications mathematical and computational tools and original results are presented using rigorous mathematical procedures Further the book gathers contributions by respected experts from 22 different research centers and eight countries Brazil Cuba France Hungary India Japan Romania and Spain The book is intended for use in graduate courses on applied computation applied mathematics and engineering where tools like computational intelligence and numerical methods are applied to the solution of real world problems in emerging areas of engineering

Handbook of Manufacturing Systems and Design Uzair Khaleeq uz Zaman, Ali Siadat, Aamer Ahmed Baqai, Kanwal Naveed, Atal Anil Kumar, 2023-08-24 This book provides a comprehensive overview of manufacturing systems their role in product process design and their interconnection with an Industry 4 0 perspective especially related to design manufacturing and operations Handbook of Manufacturing Systems and Design An Industry 4 0 Perspective provides the knowledge related to the theories and concepts of Industry 4 0 It focuses on the different types of manufacturing systems in Industry 4 0 along with associated design and control strategies It concentrates on the operations in Industry 4 0 with a particular focus on supply chain logistics risk management and reverse engineering perspectives Offering basic concepts and applications through to advanced topics the handbook feeds into the goal of being a source of knowledge as well as a vehicle to explore the future possibilities of design techniques methods and operations associated with Industry 4 0 Concepts with practical applications in the form of case studies are added to each chapter to round out the many attributes this handbook offers This handbook targets students engineers managers designers and manufacturers and will assist in their understanding of the core concepts of manufacturing systems in connection with Industry 4 0 and optimize alignment between supply and demand in real time for effective implementation of the design concepts

Artificial Intelligence in the Age of Neural Networks and Brain Computing Robert Kozma, Cesare Alippi, Yoonsuck Choe, Francesco Carlo

Morabito, 2023-10-11 Artificial Intelligence in the Age of Neural Networks and Brain Computing Second Edition demonstrates that present disruptive implications and applications of AI is a development of the unique attributes of neural networks mainly machine learning distributed architectures massive parallel processing black box inference intrinsic nonlinearity and

smart autonomous search engines The book covers the major basic ideas of brain like computing behind AI provides a framework to deep learning and launches novel and intriguing paradigms as possible future alternatives The present success of AI based commercial products proposed by top industry leaders such as Google IBM Microsoft Intel and Amazon can be interpreted using the perspective presented in this book by viewing the co existence of a successful synergism among what is referred to as computational intelligence natural intelligence brain computing and neural engineering The new edition has been updated to include major new advances in the field including many new chapters Developed from the 30th anniversary of the International Neural Network Society INNS and the 2017 International Joint Conference on Neural Networks IJCNN Authored by top experts global field pioneers and researchers working on cutting edge applications in signal processing speech recognition games adaptive control and decision making Edited by high level academics and researchers in intelligent systems and neural networks Includes all new chapters including topics such as Frontiers in Recurrent Neural Network Research Big Science Team Science Open Science for Neuroscience A Model Based Approach for Bridging Scales of Cortical Activity A Cognitive Architecture for Object Recognition in Video How Brain Architecture Leads to Abstract Thought Deep Learning Based Speech Separation and Advances in AI Neural Networks

Smart Computing Applications in

Crowdfunding Bo Xing,Tshilidzi Marwala,2018-12-07 The book focuses on smart computing for crowdfunding usage looking at the crowdfunding landscape e g reward donation equity P2P based and the crowdfunding ecosystem e g regulator asker backer investor and operator The increased complexity of fund raising scenario driven by the broad economic environment as well as the need for using alternative funding sources has sparked research in smart computing techniques Covering a wide range of detailed topics the authors of this book offer an outstanding overview of the current state of the art providing deep insights into smart computing methods tools and their applications in crowdfunding exploring the importance of smart analysis prediction and decision making within the fintech industry This book is intended to be an authoritative and valuable resource for professional practitioners and researchers alike as well as finance engineering and computer science students who are interested in crowdfunding and other emerging fintech topics

Design, Applications, and Maintenance of

Cyber-Physical Systems Rea, Pierluigi,Ottaviano, Erika,Machado, José,Antosz, Katarzyna,2021-06-25 Cyber physical systems CPS can be defined as systems in which physical objects are represented in the digital world and integrated with computation storage and communication capabilities and are connected to each other in a network The goal in the use of the CPS is integrating the dynamics of the physical processes with those of the software and networking providing abstractions and modelling design and analysis techniques for the integrated whole The notion of CPS is linked to concepts of robotics and sensor networks with intelligent systems proper of computational intelligence leading the pathway Recent advances in science and engineering improve the link between computational and physical elements by means of intelligent systems increasing the adaptability autonomy efficiency functionality reliability safety and usability of cyber physical systems The

potential of cyber physical systems will spread to several directions including but not limited to intervention precision manufacturing operations in dangerous or inaccessible environments coordination efficiency Maintenance 4 0 and augmentation of human capabilities Design Applications and Maintenance of Cyber Physical Systems gives insights about CPS as tools for integrating the dynamics of the physical processes with those of software and networking providing abstractions and modelling design and analysis techniques for their smart manufacturing interoperation The book will have an impact upon the research on robotics mechatronics integrated intelligent multibody systems Industry 4 0 production systems management and maintenance decision support systems and Maintenance 4 0 The chapters discuss not only the technologies involved in CPS but also insights into how they are used in various industries This book is ideal for engineers practitioners researchers academicians and students who are interested in a deeper understanding of cyber physical systems CPS their design application and maintenance with a special focus on modern technologies in Industry 4 0 and Maintenance 4 0

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