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Intelligent Systems and Machine Learning for Industry P. R Anisha, C. Kishor Kumar Reddy, Nhu Gia Nguyen, Megha Bhushan, Ashok Kumar, Marlia Mohd Hanafiah, 2022-12-21 The book explores the concepts and challenges in developing novel approaches using the Internet of Things intelligent systems machine intelligence systems and data analytics in various industrial sectors such as manufacturing smart agriculture smart cities food processing environment defense stock market and healthcare Further it discusses the latest improvements in the industrial sectors using machine intelligence learning and intelligent systems techniques especially robotics Features Highlights case studies and solutions to industrial problems using machine learning and intelligent systems Covers applications in smart agriculture smart healthcare intelligent machines for disaster management and smart manufacturing Provides the latest methodologies using machine intelligence systems in the early forecasting of weather Examines the research challenges and identifies the gaps in data collection and data analysis especially imagery signal and speech Provides applications of digitization and smart processing using the Internet of Things and effective intelligent agent systems in manufacturing Discusses a systematic and exhaustive analysis of intelligent software effort estimation models It will serve as an ideal reference text for graduate students post graduate students IT Professionals and academic researchers in the fields of electrical engineering electronics and communication engineering computer engineering and information technology

Proceedings of International Conference on Wireless Communication Zoran Gajic, Hari Vasudevan, Amit A. Deshmukh, Valentina Emilia Balas, Marius M. Balas, 2025-10-29 This book comprises selected papers presented at the International Conference on Wireless Communication ICWiCOM 2025 which is organized by the Department of Electronics and Telecommunication Engineering D J Sanghvi College of Engineering Mumbai India during October 10 11 2025 The book focuses on specific topics of wireless communication like signal and image processing applicable to wireless domains networking microwave and antenna design and telemedicine systems Covering three main areas antenna design networking and signal processing embedded systems and Internet of things IoT it is a valuable resource for postgraduate and doctoral students

AI Based Solutions for Inclusive Quality Education K.M. Soni, Nitasha Hasteer, Aditi Bhardwaj, Rahul Sindhvani, J. Paulo Davim, 2025-09-30 AI Based Solutions for Inclusive Quality Education helps readers discover practical AI tools for diverse learning styles and abilities fostering inclusivity in education and maximizing the individual potential of students and educators It provides cutting edge solutions designed to remove barriers due to accessibility and create an equitable classroom Through practical applications and case studies the book explores the power of AI in creating personalized learning pathways and methods of engagement in the classroom while emphasizing that the human touch with empathy and critical thinking remains central to the learning process It addresses concerns about the ethical development and deployment of AI in education Features Discusses a topic that is at the forefront of concerns in the education sector with the disruptive impact of advances in AI Provides explanations for specific AI

platforms and tools along with their features and applications in education Includes case studies and discusses inclusivity and the lessons learned from each AI application Explains how to ethically handle bias privacy and transparency in AI based solutions in education Serves as a comprehensive guide for educators policymakers and technology developers interested in the power of AI in educational environments This book serves as a timely reference in the current era of AI tools and education It is written for those who work in the education sector as well as researchers academicians undergraduate and graduate students those involved with undergraduate teaching in critical thinking and problem solving for information systems information technology computer science and engineering and all teaching institutions where AI tools have been or will be introduced

Communication and Intelligent Systems Harish Sharma,Vivek Shrivastava,Ashish Kumar Tripathi,Lipo Wang,2024-06-20 This book gathers selected research papers presented at the Fifth International Conference on Communication and Intelligent Systems ICCIS 2023 organized by Malaviya National Institute of Technology Jaipur India during December 16 17 2023 This book presents a collection of state of the art research work involving cutting edge technologies for communication and intelligent systems Over the past few years advances in artificial intelligence and machine learning have sparked new research efforts around the globe which explore novel ways of developing intelligent systems and smart communication technologies The book presents single and multi disciplinary research on these themes to make the latest results available in a single readily accessible source The work is presented in three volumes

Distributed Energy Systems Ashutosh K. Giri,Sabha Raj Arya,Dmitri Vinnikov,2022-12-30 This book provides the insight of various topology and control algorithms used for power control in distributed energy power conversion systems such as solar wind and other power sources It covers traditional and advanced control algorithms of power filtering including modelling and simulations and hybrid power generation systems The adaptive control model predictive control fuzzy based controllers Artificial Intelligence based control algorithm and optimization techniques application for estimating the error regulator gains are discussed Features of this book include the following Covers the schemes for power quality enhancement and voltage and frequency control Provides complete mathematical modelling and simulation results of the various configurations of the renewable energy based distribution systems Includes design control and experimental results Discusses mathematical modelling of classical and adaptive control techniques Explores recent application of control algorithm and power conversion This book is aimed at researchers professionals and graduate students in power electronics distributed power generation systems control engineering Artificial Intelligent based control algorithms optimization techniques and renewable energy systems

Interoperability in IoT for Smart Systems Monideepa Roy,Pushpendu Kar,Sujoy Datta,2020-12-16 Interoperability in IoT for Smart Systems discusses the different facets of interoperability issues among the IoT devices and their solutions the scalability issues in an IoT network and provides solutions for plug n play of new devices with the existing IoT system It also addresses the possible usage of interoperable and plug n play IoT networks

in different systems to make them smarter Aimed at researchers and graduate students in computer science computer engineering computer networks electronics engineering this book Exclusively covers interoperability of IoT systems in parallel with their use towards the development of smart systems Discusses the requirements of interoperability in smart IoT systems and their solutions Reviews IoT applications in different smart and intelligent systems Explores dealing with interoperability of heterogeneous participating devices Provides different case studies and open problems related to interoperability in IoT systems

Coping with Global Environmental Change, Disasters and Security Hans Günter Brauch, Úrsula Oswald Spring, Czeslaw Mesjasz, John Grin, Patricia Kameri-Mbote, Béchir Chourou, Pál Dunay, Joern Birkmann, 2011-02-03 Coping with Global Environmental Change Disasters and Security Threats Challenges Vulnerabilities and Risks reviews conceptual debates and case studies focusing on disasters and security threats challenges vulnerabilities and risks in Europe the Mediterranean and other regions It discusses social science concepts of vulnerability and risks global regional and national security challenges global warming floods desertification and drought as environmental security challenges water and food security challenges and vulnerabilities vulnerability mapping of environmental security challenges and risks contributions of remote sensing to the recognition of security risks mainstreaming early warning of conflicts and hazards and provides conceptual and policy conclusions Journal American Chemical Society, 2004 Journal of the American Chemical Society American Chemical Society, 2004 *New progresses and effects of functional feed additives on marine aquatic animals* Jin Niu, Shiwei Xie, Min Jin, Ikram Belghit, Jun Wang, 2023-01-31 **County Gentleman and Land and Water** ,1908 **Das Schweizer Buch** ,2002 Publisher and Bookseller ,1968 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series Yearbook of International Organizations 2001-2002 K G Saur Books, 2001

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