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Artificial Intelligence Applications and Innovations

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Part I



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Melike TORUN, Ezgi DEMİR

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Advances in Artificial Intelligence Applications in Industrial and Systems Engineering Gavriel

Salvendy, Waldemar Karwowski, Vincent Duffy, 2025-09-23 Comprehensive guide offering actionable strategies for enhancing human centered AI efficiency and productivity in industrial and systems engineering through the power of AI Advances in Artificial Intelligence Applications in Industrial and Systems Engineering is the first book in the Advances in Industrial and Systems Engineering series offering insights into AI techniques challenges and applications across various industrial and systems engineering ISE domains Not only does the book chart current AI trends and tools for effective integration but it also raises pivotal ethical concerns and explores the latest methodologies tools and real world examples relevant to today s dynamic ISE landscape Readers will gain a practical toolkit for effective integration and utilization of AI in system design and operation The book also presents the current state of AI across big data analytics machine learning artificial intelligence tools cloud based AI applications neural based technologies modeling and simulation in the metaverse intelligent systems engineering and more and discusses future trends Written by renowned international contributors for an international audience Advances in Artificial Intelligence Applications in Industrial and Systems Engineering includes information on Reinforcement learning computer vision and perception and safety considerations for autonomous systems AS NLP topics including language understanding and generation sentiment analysis and text classification and machine translation AI in healthcare covering medical imaging and diagnostics drug discovery and personalized medicine and patient monitoring and predictive analysis Cybersecurity covering threat detection and intrusion prevention fraud detection and risk management and network security Social good applications including poverty alleviation and education environmental sustainability and disaster response and humanitarian aid Advances in Artificial Intelligence Applications in Industrial and Systems Engineering is a timely essential reference for engineering computer science and business professionals worldwide Algorithms in Advanced Artificial Intelligence R. N. V. Jagan Mohan, Vasamsetty Chandra Sekhar, V. M. N. S. S. V. K. R. Gupta, 2024-07-08 The most common form of severe dementia Alzheimer's disease AD is a cumulative neurological disorder because of the degradation and death of nerve cells in the brain tissue intelligence steadily declines and most of its activities are compromised in AD Before diving into the level of AD diagnosis it is essential to highlight the fundamental differences between conventional machine learning ML and deep learning DL This work covers a number of photo preprocessing approaches that aid in learning because image processing is essential for the diagnosis of AD The most crucial kind of neural network for computer vision used in medical image processing is called a Convolutional Neural Network CNN The proposed study will consider facial characteristics including expressions and eye movements using the diffusion model as part of CNN s meticulous approach to Alzheimer s diagnosis Convolutional neural networks were used in an effort to sense Alzheimer s disease in its early stages using a big collection of pictures of facial expressions Advanced Artificial Intelligence Zhongzhi

Advances in Artificial Intelligence Application in Data Analysis and Control of Smart Grid Xin Ning, Imr Fattah, Praveen Kumar Donta, Mohamed M.F. Darwish, 2023-11-23 Smart grid SG is considered a form of intelligent system that allows the electric grid to perform its functions efficiently The SG is a network that allows for the flow of electrical energy and data where the data is used to make intelligent decisions in the operation of the electric grid Artificial intelligence AI techniques such as expert system ES Machine Learning ML and deep Learning DL have brought an advancing frontier in power electronics and power engineering with their powerful data processing capabilities. The SG relies on the flow of data to make its intelligent control therefore AI technology is a perfect fit for the SG The application of AI technology in the SG has the potential to improve the intelligence of the SG This research topic is focused on ways of improving the data analysis and control of SG by leveraging technologies Manuscripts with the progress made in solving a range of miscellaneous and critical problems in SG by leveraging AI methods such as ES ML and DL methods are welcome Reviews and original research that describe the latest developments in this field are considered for publication in this research topic The scope of this Research Topic will include the following themes but are not limited to 1 Data driven and artificial intelligence approaches to enhancing flexibility and resilience of SG 2 Expert system Machine Learning and Deep Learning reinforcement learning and transfer learning for applications in SG 3 AI for development in ensuring high reliability and stability of electric power system with high penetration of renewable energy 4 AI for studies in operation protection integrated planning and control of SG systems 5 AI for development in diagnostics and diagnostics for SG 6 Health monitoring of a modern wind generation system using an adaptive neuro fuzzy system 7 Space vector fault pattern identification of a smart grid subsystem by neural mapping 8 Control techniques mathematical programming methods

optimization techniques and metaheuristics applied in SG 9 AI and optimization techniques for green energy and carbon footprint 10 Novel applications of AI based smart grids in smart cities smart transportation smart healthcare and smart Research Anthology on Artificial Intelligence Applications in Security Management Association, manufacturing Information Resources, 2020-11-27 As industries are rapidly being digitalized and information is being more heavily stored and transmitted online the security of information has become a top priority in securing the use of online networks as a safe and effective platform With the vast and diverse potential of artificial intelligence AI applications it has become easier than ever to identify cyber vulnerabilities potential threats and the identification of solutions to these unique problems The latest tools and technologies for AI applications have untapped potential that conventional systems and human security systems cannot meet leading AI to be a frontrunner in the fight against malware cyber attacks and various security issues However even with the tremendous progress AI has made within the sphere of security it s important to understand the impacts implications and critical issues and challenges of AI applications along with the many benefits and emerging trends in this essential field of security based research Research Anthology on Artificial Intelligence Applications in Security seeks to address the fundamental advancements and technologies being used in AI applications for the security of digital data and information The included chapters cover a wide range of topics related to AI in security stemming from the development and design of these applications the latest tools and technologies as well as the utilization of AI and what challenges and impacts have been discovered along the way This resource work is a critical exploration of the latest research on security and an overview of how AI has impacted the field and will continue to advance as an essential tool for security safety and privacy online This book is ideally intended for cyber security analysts computer engineers IT specialists practitioners stakeholders researchers academicians and students interested in AI applications in the realm of security research Advances in Neural Networks Isnn 2009 Wen Yu, Haibo He, 2009-05-07 The three volume set LNCS 5551 5552 5553 constitutes the refereed proceedings of the 6th International Symposium on Neural Networks ISNN 2009 held in Wuhan China in May 2009 The 409 revised papers presented were carefully reviewed and selected from a total of 1 235 submissions. The papers are organized in 20 topical sections on theoretical analysis stability time delay neural networks machine learning neural modeling decision making systems fuzzy systems and fuzzy neural networks support vector machines and kernel methods genetic algorithms clustering and classification pattern recognition intelligent control optimization robotics image processing signal processing biomedical applications fault diagnosis telecommunication sensor network and transportation systems as well as applications

Advanced Artificial Intelligence (Third Edition) Zhongzhi Shi,2024-11-04 This third edition comprehensively captures the cutting edge research achievements of AI Topics are thoroughly revised and updated presenting the latest techniques and strategies to address the impending challenges facing computer scientists today The useful reference text benefits professionals academics researchers senior and graduate students in the information field and related tertiary specialties

Artificial Intelligence Applications for Brain-Computer Interfaces Abdulhamit Subasi, Saeed Mian Qaisar, Akash Kumar Bhoi, Parvathaneni Naga Srinivasu, 2025-01-10 Artificial Intelligence Applications for Brain Computer Interfaces focuses on the advancements challenges and prospects of future technologies involving noninvasive brain computer interfaces BCIs It includes the processing and analysis of multimodal signals integrated computation acquisition devices and implantable neuro techniques This book not only provides cross disciplinary research in BCI but also presents divergent applications on telerehabilitation emotion recognition neuro rehabilitation cognitive workload assessments and ambient assisted living solutions In 15 chapters this book describes how BCIs connect the brain with external devices like computers and electronic gadgets It analyzes the neural signals from the brain to obtain insights from the brain patterns using multiple noninvasive wearable sensors It gives insight into how sensor outcomes are processed through machine intelligent models to draw inferences Each chapter starts with the importance problem statement and motivation A description of the proposed methodology is provided and related works are also presented Each chapter can be read independently and therefore the book is a valuable resource for researchers health professionals postgraduate students postdoc researchers and academicians in the fields of BCI prosthesis computer vision and mental state estimation and all those who wish to broaden their knowledge in the allied field Focuses on the advancements challenges and prospects for future technologies over noninvasive brain computer interfaces BCIs including the processing and analysis of multimodal signals integrated calculation acquisition devices and implantable technologies Presents theories algorithms realizations applications approaches and challenges that will have their impact and contribution in the design and development of modern and effective BCIs Assists in understanding the predominance of BCI technology in various applications Artificial Intelligence Applications And Their Economic Effects On The Field Of Health Care Melike TORUN, Ezgi DEMİR, 2022-11-15 CONTENTS CLASSIFICATION OF HEART ATTACK RISKS WITH ARTIFICIAL INTELLIGENCE METHODS Ezgi DEM R IMPROVING PATIENT SERVICES IN HEALTHCARE SYSTEMS OPTIMIZATION OF APPOINTMENT SCHEDULING U ur EL Y DIGITAL AGE IN HEALTH SERVICES WEARABLE TECHNOLOGIES BLOCKCHAIN TECHNOLOGY AND ARTIFICIAL INTELLIGENCE Mehmet DEM Ayg I YANIK THE IMPORTANCE OF ARTIFICIAL INTELLIGENCE IN DIABETES MANAGEMENT Hatice A RALI NURSING AND MIDWIFERY IN THE WORLD OF ARTIFICIAL INTELLIGENCE Esma DEM REZEN THE IMPACT OF MOBILE HEALTH M HEALTH AND ELECTRONIC HEALTH E HEALTH APPLICATIONS ON HEALTH CARE MANAGEMENT Gamze YORGANCIO LU TARCAN B lent SAPAZ VOS VIEWER ANALYSIS OF ARTIFICIAL INTELLIGENCE IN HEALTHCARE Artificial Intelligence Applications in Agriculture and Food Quality Improvement Khan, AND ECONOMICS Melike TORUN Mohammad Ayoub, Khan, Rijwan, Praveen, Pushkar, 2022-05-27 Food is a necessary aspect of human life and agriculture is crucial to any country's global economy Because the food business is essential to both a country's economy and global economy artificial intelligence AI based smart solutions are needed to assure product quality and food safety The agricultural

sector is constantly under pressure to boost crop output as a result of population growth This necessitates the use of AI applications Artificial Intelligence Applications in Agriculture and Food Quality Improvement discusses the application of AI machine learning and data analytics for the acceleration of the agricultural and food sectors It presents a comprehensive view of how these technologies and tools are used for agricultural process improvement food safety and food quality improvement Covering topics such as diet assessment research crop yield prediction and precision farming this premier reference source is an essential resource for food safety professionals quality assurance professionals agriculture specialists crop managers agricultural engineers food scientists computer scientists AI specialists students libraries government officials researchers and academicians **Emerging Artificial Intelligence Applications in Computer Engineering Ilias G.** Maglogiannis, 2007 Provides insights on how computer engineers can implement artificial intelligence AI in real world applications This book presents practical applications of AI Advances in Deep Learning Applications for Smart Cities Kumar, Rajeev, Dwivedi, Rakesh Kumar, 2022-05-13 Within the past decade technology has grown exponentially and governments have promoted smart cities Emerging smart cities have become both crucibles and showrooms for the practical application of the internet of things IoT cloud computing and the integration of big data into everyday life This complex concoction requires new thinking of the synergistic utilization of deep learning and blockchain methods and data driven decision making with automation infrastructure autonomous transportation and more Advances in Deep Learning Applications for Smart Cities provides a global perspective on current and future trends concerning the integration of deep learning and blockchain for smart cities It provides valuable insights on the best practices and success factors for smart cities Covering topics such as digital healthcare object detection methods and power consumption this book is an excellent reference for researchers scientists libraries industry experts government organizations students and educators of higher education business professionals communication and marketing agencies entrepreneurs and academicians Advanced artificial intelligence (AI)-based affective computing in online learning Tongguang Ni, Maozhen Li, Yizhang Emotion recognition using brain-computer interfaces and advanced artificial intelligence Jiang, 2023-05-17 Yizhang Jiang, Maozhen Li, Pengjiang William Qian, Yaoru Sun, 2023-02-17 Computational Intelligence for Oncology and Neurological Disorders Mrutyunjaya Panda, Ajith Abraham, Biju Gopi, Reuel Ajith, 2024-07-15 With the advent of computational intelligence based approaches such as bio inspired techniques and the availability of clinical data from various complex experiments medical consultants researchers neurologists and oncologists there is huge scope for CI based applications in medical oncology and neurological disorders This book focuses on interdisciplinary research in this field bringing together medical practitioners dealing with neurological disorders and medical oncology along with CI investigators The book collects high quality original contributions containing the latest developments or applications of practical use and value presenting interdisciplinary research and review articles in the field of intelligent systems for computational oncology and neurological

disorders Drawing from work across computer science physics mathematics medical science psychology cognitive science oncology and neurobiology among others it combines theoretical applied computational experimental and clinical research It will be of great interest to any neurology or oncology researchers focused on computational approaches Quantum Network Applications in Business and Medicine Ananth, Christo, Ibrahim Khalaf, Osamah, Anand, Jose, 2024-12-19 Utilizing artificial intelligence AI and quantum network applications may revolutionize both business and medicine offering opportunities for innovation and efficiency In business AI tools in data analytics and quantum computing applications help enhance decision making optimize supply chains and unlock avenues for growth through predictive modeling In medicine intelligent technologies provide more precise detection and diagnosis personalize treatment and improve drug discovery capabilities Further integration of both tools into business and medicine is necessary to improve outcomes for various sectors and create new approaches to innovation AI and Quantum Network Applications in Business and Medicine explores the application of artificial intelligence and quantum computing in business and medical industries Solutions for disease diagnosis resource allocation and effective data analysis are presented using tools like machine learning quantum networking and intelligent technology This book covers topics such as medical diagnosis deep learning and trauma responses and is a useful resource for medical professionals doctors scientists computer engineers business owners AI and Fintech K. P. Jaheer Mukthar, Rosario Mercedes Huerta-Soto, Vishal Jain, Edwin academicians and researchers Hernan Ramirez-Asis, 2025-08-29 This book explores the transformative intersection of AI and Fintech It encompasses an in depth analysis of how AI is reshaping the financial industry revolutionizing traditional practices and paving the way for innovative solutions It provides understanding of the symbiotic relationship between AI and Fintech offering insights into the current state future potential challenges and ethical considerations within this dynamic landscape It addresses critical ethical considerations surrounding AI and Fintech fostering a dialogue on responsible AI integration and data privacy Features Explains how AI is being used to automate tasks improve efficiency and reduce costs in the financial industry Covers improvement of risk management and fraud detection Includes the development of new financial products and services such as robo advisors and cryptocurrency trading platforms Explores the potential impact of AI on the financial industry both positive and negative Discusses the ethical implications of using AI in the financial sector This book is aimed at researchers and professionals in computer engineering AI and Fintech **Artificial Intelligence Applications in** Specialty Crops Yiannis Ampatzidis, Reza Ehsani, Spyros Fountas, Panos M. Pardalos, 2022-03-02

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