



Artificial Intelligence APPLICATIONS



Artificial Intelligence Developments And Applications

Ahmad Taher Azar, Anis Koubaa



Artificial Intelligence Developments And Applications:

Advances in Artificial Intelligence Applications in Industrial and Systems Engineering Waldemar

Karwowski, Vincent Duffy, Gavriel Salvendy, 2025-08-15 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 Technologies and

Applications of Artificial Intelligence Chao-Yang Lee, Chun-Li Lin, Hsuan-Ting Chang, 2024-03-27 This book constitutes the proceedings of the 28th International Conference on Technologies and Applications of Artificial Intelligence TAAI 2023 which was held in Yunlin Taiwan during December 1 2 2023 The 35 full papers and 12 short papers included in this book were carefully reviewed and selected from 193 submissions The TAAI 2023 provides a platform for experts and scholars from domestic and international universities research units and industries to exchange AI technologies and application results

Artificial Intelligence for Smart Manufacturing and Industry X.0 M. M. Manjurul Islam, Marcia L. Baptista, Faisal

Tariq, 2025-03-05 This book offers a foundational understanding of smart manufacturing SM and introduces effective AI methods tailored for smart manufacturing including supervised unsupervised and reinforcement learning techniques It also features real world industrial case studies that demonstrate the practical applications of smart manufacturing Drawing from the invaluable experiences gleaned from the aviation healthcare and semiconductors industries this book provides an in

depth understanding of how AI is driving transformative changes in the manufacturing landscape In the era of rapid technological advancements the integration of AI into manufacturing processes has emerged as a game changer This book serves as an indispensable guide for navigating this transformation presenting readers with a multidimensional perspective on the diverse applications challenges and opportunities that AI brings to the manufacturing sector The book explores the emergence of Large Language Models LLMs as a valuable tool in manufacturing It presents how LLMs especially the GPT series can process and generate textual data offering potential applications in areas like smart manufacturing and big data analysis It contains detailed case studies illustrating the practical implementation of smart manufacturing in different industries The aviation healthcare automotive and semiconductors sectors are examined highlighting tangible benefits challenges faced and lessons learned from each domain The book addresses the future prospects of Industry 4.0 and beyond the interconnected data driven evolution of manufacturing It examines the potential impact of emerging technologies such as the Industrial Internet of Things IIoT 5G and advanced robotics on the manufacturing landscape Challenges and future possibilities pertaining to research and advancement in smart manufacturing within the domains of Aviation Semiconductors and Healthcare sectors are also discussed The chapters are written in a tutorial style to allow early career researchers and industry practitioners an in depth understanding of the various topics The book serves as a reference for researchers engineers and students seeking to understand the synergy between AI Industry 4.0 LLMs and real world applications

Applications of Artificial Intelligence, Big Data and Internet of Things in Sustainable Development Sam Goundar, Archana Purwar, Ajmer Singh, 2022-10-19 This book focuses on different algorithms and models related to AI big data and IoT used for various domains It enables the reader to have a broader and deeper understanding of several perspectives regarding the dynamics challenges and opportunities for sustainable development using artificial intelligence big data and IoT Applications of Artificial Intelligence Big Data and Internet of Things IoT in Sustainable Development focuses on IT based advancements in multidisciplinary fields such as healthcare finance bioinformatics industrial automation and environmental science The authors discuss the key issues of security management and the realization of possible solutions to hurdles in sustainable development The reader will master basic concepts and deep insights of various algorithms and models for various applications such as healthcare finance education smart cities smart cars among others Finally the book will also examine the applications and implementation of big data IoT AI strategies to facilitate the sustainable development goals set by the United Nations by 2030 This book is intended to help researchers academics and policymakers to analyze the challenges and future aspects for maintaining sustainable development through IoT big data and AI [Advances in Quantum Inspired Artificial Intelligence](#) Satchidananda Dehuri, Monalisa Jena, Sarat Chandra Nayak, Margarita N. Favorskaya, Smaranda Belciug, 2025-06-02 This book advances the artificial intelligence techniques by strongly inspired from quantum computing Quantum computing QC rooted in the mysterious principles of quantum mechanics has fascinated scientists researchers and

visionaries for a long time Its potential lies in changing how we compute moving from classical bits to quantum bits qubits and unlocking incredible processing capabilities At the same time artificial intelligence AI has been on a trajectory of rapid advancement with deep learning becoming proficient at tasks that were once deemed impossible At this juncture integrating these two fields through various means can play a pivotal role to bring a technological revolution Proceedings of the International Field Exploration and Development Conference 2024 Jia'en Lin,2025-07-07 This book compiles selected papers from the 14th International Field Exploration and Development Conference IFEDC 2024 The work focuses on topics including Reservoir Exploration Reservoir Drilling Completion Field Geophysics Well Logging Petroliferous Basin Evaluation Oil Gas Accumulation Fine Reservoir Description Complex Reservoir Dynamics and Analysis Low Permeability Tight Oil Gas Reservoirs Shale Oil Gas Fracture Vuggy Reservoirs Enhanced Oil Recovery in Mature Oil Fields Enhanced Oil Recovery for Heavy Oil Reservoirs Big Data and Artificial Intelligence Formation Mechanisms and Prediction of Deep Carbonate Reservoirs and other Unconventional Resources The conference serves as a platform not only for exchanging experiences but also for advancing scientific research in oil gas exploration and production The primary audience for this work includes reservoir engineers geological engineers senior engineers enterprise managers and students **AI-DRIVEN TEST STRATEGIES Enhancing Quality and Efficiency in Software Development** Phani Durga Nanda Kishore Kommisetty ,Kodanda Rami Reddy Manukonda ,Chalamayya Batchu Veera ,Vishwanadham Mandala ,Arjun Mantri, *Recent Developments and Innovations in the Sustainable Production of Concrete* Afzal Husain Khan,Mohammad Nadeem Akhtar,Khaldoon A. Bani-Hani,2024-11-18 *Recent Developments and Innovations in the Sustainable Production of Concrete* covers the various aspects of sources materials and waste products in concrete production innovation in materials new technological developments and the upgradation of existing concrete production systems Importantly it covers the so called EEE aspects Economy Energy and Environment not touched by other books The books also highlights the sustainability aspects of concrete production when recycled materials are added Case studies are used to demonstrate the practical aspect of concrete production including the machine learning approach Includes coverage of sources materials and waste products in concrete production Provides an overview of the economic energy and environment aspects in concrete production Shows how machine learning can be used in concrete construction **The Routledge Handbook of Artificial Intelligence and International Relations** Diego Brasioli,Laura Guercio,Giovanna Gnerre Landini,Andrea de Giorgio,2025-05-15 The Routledge Handbook of Artificial Intelligence and International Relations examines how machines algorithms and data are reshaping the way nations interact negotiate and navigate global politics In the 21st century artificial intelligence AI has transformed from a theoretical wonder to a real force and with it the race to dominate new technologies is proving to be a key geopolitical concern This book looks at both the ways in which AI is transforming the landscape of international relations and the challenges this brings The book includes discussions on The need for regulations and oversight to make sure that AI

is used in an ethical way AI's role in conflict resolution and peacekeeping and its influence on economic alliances The ethical and moral dilemmas posed by autonomous systems making life or death decisions Frameworks that ensure responsible and accountable use of AI How the choices we make today will define the contours of global equilibrium for generations to come With a variety of contributions from policy analysts philosophers government officials scientists researchers and business representatives this book appeals to students and researchers of political science international relations computer science and ethics It also holds interest for professionals in government organizations and NGOs at national and international levels

Applications of Artificial Intelligence in Electrical Engineering Khalid, Saifullah, 2020-03-27 Artificial intelligence is increasingly finding its way into industrial and manufacturing contexts The prevalence of AI in industry from stock market trading to manufacturing makes it easy to forget how complex artificial intelligence has become Engineering provides various current and prospective applications of these new and complex artificial intelligence technologies Applications of Artificial Intelligence in Electrical Engineering is a critical research book that examines the advancing developments in artificial intelligence with a focus on theory and research and their implications Highlighting a wide range of topics such as evolutionary computing image processing and swarm intelligence this book is essential for engineers manufacturers technology developers IT specialists managers academicians researchers computer scientists and students **Proceedings, Intelligent Systems, Their Development and Application** Association for Computing Machinery. Washington, D.C. Chapter. Annual Technical Symposium, 1985 **Artificial Intelligence in Chemical Engineering** Farooq Sher, 2025-10-04 Artificial Intelligence in Chemical Engineering explores the integration of artificial intelligence AI into various facets of chemical engineering The book introduces historical information highlights current state and trends in AI applications and discusses challenges and opportunities within the field Foundational principles of AI and machine learning are thoroughly covered giving readers a solid understanding of basic AI principles machine learning algorithms and the crucial processes of model training and validation The book then delves into the critical phase of data acquisition and preprocessing for AI models addressing strategies for data collection ensuring data quality and techniques for feature engineering and selection Subsequent chapters cover a wide spectrum of AI applications in chemical engineering From supervised and unsupervised learning for process modeling to the advanced realm of deep learning applications this book explores neural networks convolutional and recurrent architectures and their real world applications in process optimization and analysis Navigates the dynamic intersection of AI and chemical engineering covering ethical considerations interdisciplinary applications and AI's impact on safety sustainability and innovation Bridges the gap between policy and implementation of AI in chemical engineering facilitating a harmonious integration of AI technologies and fostering responsible and effective use within the chemical engineering industry Offers a forward looking approach to guide professionals researchers and students in navigating the dynamic and transformative future of AI in chemical engineering *Explainable AI (XAI) for Sustainable*

Development Lakshmi D,Ravi Shekhar Tiwari,Rajesh Kumar Dhanaraj,Seifedine Kadry,2024-06-26 This book presents innovative research works to automate innovate design and deploy AI fo real world applications It discusses AI applications in major cutting edge technologies and details about deployment solutions for different applications for sustainable development The application of Blockchain techniques illustrates the ways of optimisation algorithms in this book The challenges associated with AI deployment are also discussed in detail and edge computing with machine learning solutions is explained This book provides multi domain applications of AI to the readers to help find innovative methods towards the business sustainability and customer outreach paradigms in the AI domain Focuses on virtual machine placement and migration techniques for cloud data centres Presents the role of machine learning and meta heuristic approaches for optimisation in cloud computing services Includes application of placement techniques for quality of service performance and reliability improvement Explores data centre resource management load balancing and orchestration using machine learning techniques Analyses dynamic and scalable resource scheduling with a focus on resource management The reference work is for postgraduate students professionals and academic researchers in computer science and information technology

Advances in Oil and Gas Well Engineering Yongcun Feng,2024-03-13 Worldwide oil and gas development has shifted from conventional reservoirs to unconventional and deepwater reservoirs characterized by high pressure high temperature ultra low permeability and extensively developed natural fractures This transition to increasingly hostile environments introduces new challenges in well drilling and completion such as downhole drilling issues formation damage and reduced productivity Aiming to solve the challenges drilling and completion technologies have excelled greatly in the past two decades This book covers managed pressure drilling MPD the role of artificial intelligence AI in refining drilling processes and the transformative effects of digitalization and automation Emphasizing efficiency safety and environmental responsibility the book also integrates methods like casing while drilling for improved efficiency advanced diagnostics for rig safety stabilization techniques for wellbores in fractured reservoirs cement sheath integrity maintenance and the optimization of continuous gas lift Bridging theoretical concepts with practical applications the narrative offers insights into both operational techniques and safety strategies drawing from past experiences The current state of the art theories technologies and practices are covered bridging the gaps between fundamental theories and engineering applications

Artificial Intelligence and Machine Learning in Drug Design and Development Abhirup Khanna,May El Barachi,Sapna Jain,Manoj Kumar,Anand Nayyar,2024-06-21 The book is a comprehensive guide that explores the use of artificial intelligence and machine learning in drug discovery and development covering a range of topics including the use of molecular modeling docking identifying targets selecting compounds and optimizing drugs The intersection of Artificial Intelligence AI and Machine Learning ML within the field of drug design and development represents a pivotal moment in the history of healthcare and pharmaceuticals The remarkable synergy between cutting edge technology and the life sciences

has ushered in a new era of possibilities offering unprecedented opportunities formidable challenges and a tantalizing glimpse into the future of medicine AI can be applied to all the key areas of the pharmaceutical industry such as drug discovery and development drug repurposing and improving productivity within a short period Contemporary methods have shown promising results in facilitating the discovery of drugs to target different diseases Moreover AI helps in predicting the efficacy and safety of molecules and gives researchers a much broader chemical pallet for the selection of the best molecules for drug testing and delivery In this context drug repurposing is another important topic where AI can have a substantial impact With the vast amount of clinical and pharmaceutical data available to date AI algorithms find suitable drugs that can be repurposed for alternative use in medicine This book is a comprehensive exploration of this dynamic and rapidly evolving field In an era where precision and efficiency are paramount in drug discovery AI and ML have emerged as transformative tools reshaping the way we identify design and develop pharmaceuticals This book is a testament to the profound impact these technologies have had and will continue to have on the pharmaceutical industry healthcare and ultimately patient well being The editors of this volume have assembled a distinguished group of experts researchers and thought leaders from both the AI ML and pharmaceutical domains Their collective knowledge and insights illuminate the multifaceted landscape of AI and ML in drug design and development offering a roadmap for navigating its complexities and harnessing its potential In each section readers will find a rich tapestry of knowledge case studies and expert opinions providing a 360 degree view of AI and ML s role in drug design and development Whether you are a researcher scientist industry professional policymaker or simply curious about the future of medicine this book offers 19 state of the art chapters providing valuable insights and a compass to navigate the exciting journey ahead Audience The book is a valuable resource for a wide range of professionals in the pharmaceutical and allied industries including researchers scientists engineers and laboratory workers in the field of drug discovery and development who want to learn about the latest techniques in machine learning and AI as well as information technology professionals who are interested in the application of machine learning and artificial intelligence in drug development

Role of Artificial Intelligence in Dentistry: Current applications and future perspectives Dr Seema Jabeen,Dr Fozia Sultana,Dr Deepak Baby,Dr Robin Sabharwal,2024-05-14 In the past few years artificial intelligence AI has received enormous attention and it has evolved to being one of the main drivers of not only modern life through Siri Alexa using Google etc but also medicine Throughout business AI and associated innovations are increasingly widespread and are starting to be applied to the healthcare 1 These technologies are capable of changing many aspects of healthcare as well as administrative structures within hospitals payers and pharmaceutical organizations Although it is a new technology AI has been increasingly utilized in different medical specialties to diagnose conditions interpret results and help healthcare providers to achieve good treatment outcomes

Artificial Intelligence and Biological Sciences P.V. Mohanan,2025-06-17 Advancements of AI in medical and biological sciences have opened new ways for drug development Novel therapeutic

molecules and their target action can be easily predicted and can be modified AI helps in disease detection and diagnosis faster The breakthrough of AI is made especially in the area of personalized precision medicine host pathogen interaction and predictive epidemiology These approaches could help in faster decision making with minimal errors that can improve risk analysis especially disease diagnosis and selecting treatment strategy In agricultural practices an exact combination of fertilizers pesticides herbicides soil management water requirement analysis yield prediction and overall crop management can be modified by implementing AI interventions AI could provide a better improvement in agriculture medical research pharmaceuticals and bio based industries for a sustainable life The key features of this book are AI in medical Sciences biotechnology and drug discovery Application of AI in Digital Pathology cytology and bioinformatics Overview of AI Machine Learning and Deep Learning Impact of Artificial Intelligence in Society Artificial Intelligence in Pharmacovigilance and Ethics in Artificial Intelligence The volume aims to comprehensively cover the application of AI in biological sciences It is a collection of contributions from different authors who have several years of experience in their specific areas The book will be useful for pharma companies CROs product developers students researchers academicians policymakers and practitioners

Artificial Intelligence for Robotics and Autonomous Systems Applications Ahmad Taher Azar, Anis

Koubaa, 2023-05-15 This book addresses many applications of artificial intelligence in robotics namely AI using visual and motional input Robotic technology has made significant contributions to daily living industrial uses and medicinal applications Machine learning in particular is critical for intelligent robots or unmanned autonomous systems such as UAVs UGVs UUVs cooperative robots and so on Humans are distinguished from animals by capacities such as receiving visual information adjusting to uncertain circumstances and making decisions to take action in a complex system Significant progress has been made in robotics toward human like intelligence yet there are still numerous unresolved issues Deep learning reinforcement learning real time learning swarm intelligence and other developing approaches such as tiny ML have been developed in recent decades and used in robotics Artificial intelligence is being integrated into robots in order to develop advanced robotics capable of performing multiple tasks and learning new things with a better perception of the environment allowing robots to perform critical tasks with human like vision to detect or recognize various objects Intelligent robots have been successfully constructed using machine learning and deep learning AI technology Robotics performance is improving as higher quality and more precise machine learning processes are used to train computer vision models to recognize different things and carry out operations correctly with the desired outcome We believe that the increasing demands and challenges offered by real world robotic applications encourage academic research in both artificial intelligence and robotics The goal of this book is to bring together scientists specialists and engineers from around the world to present and share their most recent research findings and new ideas on artificial intelligence in robotics

Enabling AI Applications in Data Science Aboul-Ella Hassanien, Mohamed Hamed N. Taha, Nour Eldeen M. Khalifa, 2020-09-23 This

book provides a detailed overview of the latest developments and applications in the field of artificial intelligence and data science AI applications have achieved great accuracy and performance with the help of developments in data processing and storage It has also gained strength through the amount and quality of data which is the main nucleus of data science This book aims to provide the latest research findings in the field of artificial intelligence with data science

The World Remade by Artificial Intelligence Shalini S. Gopalkrishnan, Joaquin Jay Gonzalez III, 2025-04-28 Artificial intelligence is reshaping every facet of human existence from business and education to creativity and governance As AI systems become more powerful they raise urgent questions about ethics decision making and the future of human agency This book explores how AI is transforming industries and society offering a balanced perspective on both its immense potential and its risks Collecting case studies and expert insights it examines the impact of generative AI automation and machine learning on employment creativity and global economies They also address critical concerns such as bias misinformation and the evolving role of AI in governance and daily life Designed for business leaders policymakers educators and general readers this work represents a roadmap for navigating an AI driven world It offers clear explanations thought provoking analysis and a vision for a future where AI and humanity coexist in a rapidly changing landscape

The Enigmatic Realm of **Artificial Intelligence Developments And Applications**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Artificial Intelligence Developments And Applications** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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