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## ARTIFICIAL INTELLIGENCE TECHNIQUES

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### Machine Learning

Machine Learning is a subset of AI that uses statistical methods to enable machines to learn from data. It involves creation of algorithms that can identify patterns, make predictions

### Machine Vision

Also known as computer vision, is a field of artificial intelligence that involves training machines to interpret and understand visual data from the world around us.



### Automation & Robotics

Automation is use of technology, such as software or machines, to perform tasks with minimal human intervention. Robotics is the field of engineering and technology that involves the design, construction, and operation of robots.

### Natural Language Processing

NLP is a subfield of AI that focuses on enabling machines to understand, interpret, and generate human language.



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# Introduction To Artificial Intelligence Techniques

**Lakhmi C Jain,Ashlesha Jain,Ajita  
Jain,Sandhya Jain**



## **Introduction To Artificial Intelligence Techniques:**

*Introduction to AI Techniques for Renewable Energy System* Suman Lata Tripathi, Mithilesh Kumar Dubey, Vinay Rishiwal, Sanjeevikumar Padmanaban, 2021-11-25 Introduction to AI techniques for Renewable Energy System Artificial Intelligence AI techniques play an essential role in modeling analysis and prediction of the performance and control of renewable energy The algorithms used to model control or predict performances of the energy systems are complicated involving differential equations enormous computing power and time requirements Instead of complex rules and mathematical routines AI techniques can learn critical information patterns within a multidimensional information domain Design control and operation of renewable energy systems require a long term series of meteorological data such as solar radiation temperature or wind data Such long term measurements are often non existent for most of the interest locations or wherever they are available they suffer from several shortcomings like inferior quality of data and insufficient long series The book focuses on AI techniques to overcome these problems It summarizes commonly used AI methodologies in renewable energy with a particular emphasis on neural networks fuzzy logic and genetic algorithms It outlines selected AI applications for renewable energy In particular it discusses methods using the AI approach for prediction and modeling of solar radiation seizing performances and controls of the solar photovoltaic PV systems Features Focuses on a significant area of concern to develop a foundation for the implementation of renewable energy system with intelligent techniques Showcases how researchers working on renewable energy systems can correlate their work with intelligent and machine learning approaches Highlights international standards for intelligent renewable energy systems design reliability and maintenance Provides insights on solar cell biofuels wind and other renewable energy systems design and characterization including the equipment for smart energy systems This book which includes real life examples is aimed at undergraduate and graduate students and academicians studying AI techniques used in renewable energy systems *Handbook of Artificial Intelligence Techniques in Photovoltaic Systems* Adel Mellit, Soteris Kalogirou, 2022-06-23 Handbook of Artificial Intelligence Techniques in Photovoltaic Systems Modelling Control Optimization Forecasting and Fault Diagnosis provides readers with a comprehensive and detailed overview of the role of artificial intelligence in PV systems Covering up to date research and methods on how when and why to use and apply AI techniques in solving most photovoltaic problems this book will serve as a complete reference in applying intelligent techniques and algorithms to increase PV system efficiency Sections cover problem solving data for challenges including optimization advanced control output power forecasting fault detection identification and localization and more Supported by the use of MATLAB and Simulink examples this comprehensive illustration of AI techniques and their applications in photovoltaic systems will provide valuable guidance for scientists and researchers working in this area Includes intelligent methods in real time using reconfigurable circuits FPGAs DSPs and MCs Discusses the newest trends in AI forecasting optimization and control applications Features MATLAB and Simulink examples highlighted throughout

*Artificial Intelligence Techniques in Smart Agriculture* Siddharth Singh Chouhan, Akash Saxena, Uday Pratap Singh, Sanjeev Jain, 2024-10-19 This edited volume explores the integration of artificial intelligence to improve crop production. It addresses the critical need for intelligent crop management in light of the world's escalating population. Encompassing a spectrum of technologies including computer vision, image processing, soft computing, machine learning, and deep learning, the book explores advancements in decision-making systems. It integrates data science methodologies, Internet of Things, wireless communications, and a range of sensors and actuators to provide precise, timely, and cost-effective solutions to agricultural challenges, ultimately enhancing both the quality and quantity of crop yields. The book empowers its audience to direct their efforts towards designing models and prototypes that benefit society and the environment, making it an indispensable resource for those eager to shape the future of intelligent agriculture. It serves as a comprehensive guide for students, scholars, and academicians keen on delving into the transformative field of artificial intelligence in agriculture. Researchers, scientists, and field experts will find invaluable insights to guide their exploration and contribution to this domain.

Artificial Intelligence Techniques in Prolog Yoav Shoham, 2014-05-12 *Artificial Intelligence Techniques in Prolog* introduces the reader to the use of well-established algorithmic techniques in the field of artificial intelligence (AI) with Prolog as the implementation language. The techniques considered cover general areas such as search, rule-based systems, and truth maintenance, as well as constraint satisfaction and uncertainty management. Specific application domains such as temporal reasoning, machine learning, and natural language are also discussed. Comprised of 10 chapters, this book begins with an overview of Prolog, paying particular attention to Prolog terms and rules and Prolog facts as special cases. Unification and the and/or computation tree induced by a Prolog program and a query, the depth-first left-to-right traversal of that tree by the standard Prolog interpreter, and built-in predicates such as unification and equality. Subsequent chapters deal with search and representation of graphs in Prolog, backward chaining methods, truth maintenance systems, and constraint satisfaction. Reasoning with uncertainty, planning, and temporal reasoning and machine learning are also tackled. The book concludes with an assessment of natural language processing and some of the linguistic notions that are easily encoded in Prolog. This monograph will be of interest to both students and practitioners in the fields of AI and computer science.

**Artificial Intelligence Techniques for Rational Decision Making** Tshilidzi Marwala, 2014-10-20 Develops insights into solving complex problems in engineering, biomedical sciences, social science, and economics based on artificial intelligence. Some of the problems studied are interstate conflict, credit scoring, breast cancer diagnosis, condition monitoring, wine testing, image processing, and optical character recognition. The author discusses and applies the concept of flexibly bounded rationality, which prescribes that the bounds in Nobel Laureate Herbert Simon's bounded rationality theory are flexible due to advanced signal processing techniques. Moore's Law and artificial intelligence. *Artificial Intelligence Techniques for Rational Decision Making* examines and defines the concepts of causal and correlation machines and applies the transmission theory of

causality as a defining factor that distinguishes causality from correlation It develops the theory of rational counterfactuals which are defined as counterfactuals that are intended to maximize the attainment of a particular goal within the context of a bounded rational decision making process Furthermore it studies four methods for dealing with irrelevant information in decision making Theory of the marginalization of irrelevant information Principal component analysis Independent component analysis Automatic relevance determination method In addition it studies the concept of group decision making and various ways of effecting group decision making within the context of artificial intelligence Rich in methods of artificial intelligence including rough sets neural networks support vector machines genetic algorithms particle swarm optimization simulated annealing incremental learning and fuzzy networks this book will be welcomed by researchers and students working in these areas

**Alternative Data and Artificial Intelligence Techniques** Qingquan Tony Zhang, Beibei Li, Danxia Xie, 2022-10-31 This book introduces a state of art approach in evaluating portfolio management and risk based on artificial intelligence and alternative data The book covers a textual analysis of news and social media information extraction from GPS and IoTs data and risk predictions based on small transaction data etc The book summarizes and introduces the advancement in each area and highlights the machine learning and deep learning techniques utilized to achieve the goals As a complement it also illustrates examples on how to leverage the python package to visualize and analyze the alternative datasets and will be of interest to academics researchers and students of risk evaluation risk management data AI and financial innovation

**Artificial Intelligence Techniques for Computer Graphics** Dimitri Plemenos, Georgios Miaoulis, 2008-09-11 The purpose of this volume is to present current work of the Intelligent Computer Graphics community a community growing up year after year Indeed if at the beginning of Computer Graphics the use of Artificial Intelligence techniques was quite unknown more and more researchers all over the world are nowadays interested in intelligent techniques allowing substantial improvements of traditional Computer Graphics methods The other main contribution of intelligent techniques in Computer Graphics is to allow invention of completely new methods often based on automation of a lot of tasks assumed in the past by the user in an imprecise and human time consuming manner The history of research in Computer Graphics is very edifying At the beginning due to the slowness of computers in the years 1960 the unique research concern was visualisation The purpose of Computer Graphics researchers was to find new visualisation algorithms less and less time consuming in order to reduce the enormous time required for visualisation A lot of interesting algorithms were invented during these first years of research in Computer Graphics The scenes to be displayed were very simple because the computing power of computers was very low So scene modelling was not necessary and scenes were designed directly by the user who had to give coordinates of vertices of scene polygons

**Artificial Intelligence Techniques for Sustainable Development** Deepika Ghai, Kirti Rawal, Kanav Dhir, Suman Lata Tripathi, 2024-12-19 How can the efficiency of the algorithms be increased with a lesser number of computations as well as optimized with the resources for cost effective

solutions Artificial Intelligence Techniques for Sustainable Development provides an answer Further it discusses important concepts such as green communication network design and implementation for the Internet of Things ecosystem green computing in network security and artificial intelligence models for remote sensing applications Key features Presents the latest tools and techniques in developing solutions intended for resource utilization energy efficiency and human and environmental health Highlights the advancement in electronics and communication technology for green applications Covers smart energy harvesting charging and power management techniques using machine learning Explains green communication network design and implementation for the Internet of Things ecosystem and green computing in network security Illustrates prediction models for carbon emission and sequestration environmental health and climate change The book is aimed at senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering computer science and engineering environmental engineering and biomedical engineering

**Artificial Intelligence Techniques in Power Systems Operations and Analysis** Nagendra Singh, Sitendra Tamrakar, Arvind Mewada, Sanjeev Kumar Gupta, 2023-08-16 An electrical power system consists of a large number of generation transmission and distribution subsystems It is a very large and complex system hence its installation and management are very difficult tasks An electrical system is essentially a very large network with very large data sets Handling these data sets can require much time to analyze and subsequently implement An electrical system is necessary but also potentially very dangerous if not operated and controlled properly The demand for electricity is ever increasing so maintaining load demand without overloading the system poses challenges and difficulties Thus planning installing operating and controlling such a large system requires new technology Artificial intelligence AI applications have many key features that can support a power system and handle overall power system operations AI based applications can manage the large data sets related to a power system They can also help design power plants model installation layouts optimize load dispatch and quickly respond to control apparatus These applications and their techniques have been successful in many areas of power system engineering Artificial Intelligence Techniques in Power Systems Operations and Analysis focuses on the various challenges arising in power systems and how AI techniques help to overcome these challenges It examines important areas of power system analysis and the implementation of AI driven analysis techniques The book helps academicians and researchers understand how AI can be used for more efficient operation Multiple AI techniques and their application are explained Also featured are relevant data sets and case studies Highlights include Power quality enhancement by PV UPQC for non linear load Energy management of a nanogrid through flair of deep learning from IoT environments Role of artificial intelligence and machine learning in power systems with fault detection and diagnosis AC power optimization techniques Artificial intelligence and machine learning techniques in power systems automation Artificial Intelligence Methods and Applications Nikolaos G. Bourbakis, 1992 This volume is the first in a series which deals with the challenge of AI issues gives

updates of AI methods and applications and promotes high quality new ideas techniques and methodologies in AI This volume contains articles by 38 specialists in various AI subfields covering theoretical and application issues     *Applications of Artificial Intelligence Techniques in Engineering* Hasmat Malik, Smriti Srivastava, Yog Raj Sood, Aamir Ahmad, 2018-09-18 The book is a collection of high quality peer reviewed innovative research papers from the International Conference on Signals Machines and Automation SIGMA 2018 held at Netaji Subhas Institute of Technology NSIT Delhi India The conference offered researchers from academic and industry the opportunity to present their original work and exchange ideas information techniques and applications in the field of computational intelligence artificial intelligence and machine intelligence The book is divided into two volumes discussing a wide variety of industrial engineering and scientific applications of the emerging techniques     **Artificial Intelligence Techniques in Power Systems** Kevin Warwick, Arthur Ekwue, Raj Aggarwal, Institution of Electrical Engineers, 1997 The intention of this book is to give an introduction to and an overview of the field of artificial intelligence techniques in power systems with a look at various application studies

*Artificial Intelligence Techniques for Analysing Sensitive Data in Medical Cyber-Physical Systems* Massimo Ficco, Gianni D'Angelo, 2025-01-22 This book presents the major advances in techniques to preserve privacy and security requirements connected with the use of AI and machine learning ML to analyse and manage sensitive data in MCPSSs The advances in Internet of things and artificial intelligence AI have witnessed great progress on healthcare technologies in several application domains In particular the interconnection between the physical spaces characterized by physical devices able to collect users health information with the cyberspace also known as the virtual space has fostered the development of intelligent Medical Cyber Physical Systems MCPSSs with the capability to deliver real time healthcare services On the other hand the potential innovation that these technologies bring to improve patient care by remotely analysing health parameters using medical devices advanced smart sensors and AI is hampered by security and privacy challenges related to the managed sensitive data Starting from the state of the art on AI and ML for medical applications and digital health an accurate analysis of privacy and security risks associated with the use of the MCPSSs is presented Then Digital Twins are introduced as a significant technique to enhance decision making through learning and reasoning of collected on field real time data Moreover decentralized healthcare data management approaches based on federated learning tiny machine learning and blockchain technologies have been introduced to shift control and responsibility of healthcare data management from individual centralized entities to a more distributed structure preserving privacy and security Finally the application of AI based security monitoring approaches in healthcare is discussed In this book both theoretical and practical approaches are used to allow readers to understand complex topics and concepts easily also through real life scenarios     **Artificial Intelligence Techniques for Advanced Computing Applications** D. Jude Hemanth, G. Vadivu, M. Sangeetha, Valentina Emilia Balas, 2020-07-23 This book features a collection of high quality research papers presented at the International

Conference on Advanced Computing Technology ICACT 2020 held at the SRM Institute of Science and Technology Chennai India on 23-24 January 2020. It covers the areas of computational intelligence, artificial intelligence, machine learning, deep learning, big data, and applications of artificial intelligence in networking, IoT, and bioinformatics. **Multi-Objective**

**Optimization using Artificial Intelligence Techniques** Seyedali Mirjalili, Jin Song Dong, 2019-07-24. This book focuses on the most well-regarded and recent nature-inspired algorithms capable of solving optimization problems with multiple objectives. Firstly, it provides preliminaries and essential definitions in multi-objective problems and different paradigms to solve them. It then presents an in-depth explanation of the theory, literature review, and applications of several widely used algorithms such as Multi-objective Particle Swarm Optimizer, Multi-Objective Genetic Algorithm, and Multi-objective Grey Wolf Optimizer. Due to the simplicity of the techniques and flexibility, readers from any field of study can employ them for solving multi-objective optimization problems. The book provides the source codes for all the proposed algorithms on a dedicated webpage. **Artificial Intelligence Techniques in Human Resource Management** Soumi Ghosh, Soumi

Majumder, Santosh Kumar Das, 2023-08-18. This new volume presents a range of techniques that aim to enhance the operation of human resource management by applying state-of-the-art artificial intelligence technology. With illustrative case studies, the volume uses examples from several real-life problems and includes their possible solutions using advanced AI technology. The book explores the confluence of smart computing and traditional businesses to foster productivity, profitability, and prosperity and goes on to apply AI techniques in the recruitment process with enterprise resource planning management software for manpower optimization, systems in colleges for creating uniformity in HRM across organizations for creating conflicting strategy management techniques, and more. One pandemic-related chapter discusses the use of radio frequency-based technology for monitoring social distancing. **Transforming Management Using Artificial**

**Intelligence Techniques** Vikas Garg, Rashmi Agrawal, 2020-11-09. Transforming Management Using Artificial Intelligence Techniques redefines management practices using artificial intelligence (AI) by providing a new approach. It offers a detailed, well-illustrated treatment of each topic with examples and case studies and brings the exciting field to life by presenting a substantial and robust introduction to AI in a clear and concise manner. It provides a deeper understanding of how the relevant aspects of AI impact each other's efficacy for better output. It is a reliable and accessible one-step resource that introduces AI, presents a full examination of applications, provides an understanding of the foundations, examines education powered by AI, entertainment, home and service robots, healthcare, reimagined predictive policing, space exploration, and so much more, all within the realm of AI. This book will feature uncovering new and innovative features of AI and how it can help in raising economic efficiency at both micro and macro levels. Both the literature and practical aspects of AI and its uses are summarized by this book. Key concepts are summarized at the end of each chapter to assist reader comprehension. Case studies of tried and tested approaches to resolutions of typical problems are included. Ideal for both teaching and general knowledge purposes, this book will also

simply provide the topic of AI for the readers aspiring researchers and practitioners involved in management and computer science so they can obtain a high level of understanding of AI and managerial applications **Artificial Intelligence**

**Techniques In Breast Cancer Diagnosis And Prognosis** Lakhmi C Jain,Ashlesha Jain,Ajita Jain,Sandhya Jain,2000-08-21

The main aim of this book is to present a sample of recent research on the application of novel artificial intelligence paradigms to the diagnosis and prognosis of breast cancer These paradigms include neural networks fuzzy logic and evolutionary computing Artificial intelligence techniques offer advantages such as adaptation fault tolerance learning and human like behavior over conventional computing techniques The idea is to combine the pathological intelligent and statistical approaches to enable simple and accurate diagnosis and prognosis This book is the first of its kind on the topic of artificial intelligence in breast cancer It presents the applications of artificial intelligence in breast cancer diagnosis and prognosis and includes state of the art concepts in the field It contains contributions from Australia Germany Italy UK and the USA Artificial Intelligence Techniques for Satellite Image Analysis D. Jude Hemanth,2019-11-13 The main objective of this book is to provide a common platform for diverse concepts in satellite image processing In particular it presents the state of the art in Artificial Intelligence AI methodologies and shares findings that can be translated into real time applications to benefit humankind Interdisciplinary in its scope the book will be of interest to both newcomers and experienced scientists working in the fields of satellite image processing geo engineering remote sensing and Artificial Intelligence It can be also used as a supplementary textbook for graduate students in various engineering branches related to image processing **Artificial Intelligence Applications and Innovations** Ilias Maglogiannis,John Macintyre,Lazaros

Iliadis,2021-06-22 This book constitutes the refereed proceedings of the 17th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2021 held virtually and in Hersonissos Crete Greece in June 2021 The 50 full papers and 11 short papers presented were carefully reviewed and selected from 113 submissions They cover a broad range of topics related to technical legal and ethical aspects of artificial intelligence systems and their applications and are organized in the following sections adaptive modeling neuroscience AI in biomedical applications AI impacts big data automated machine learning autonomous agents clustering convolutional NN data mining word counts deep learning fuzzy modeling hyperdimensional computing Internet of Things Internet of energy machine learning multi agent systems natural language recommendation systems sentiment analysis and smart blockchain applications cybersecurity Chapter Improving the Flexibility of Production Scheduling in Flat Steel Production Through Standard and AI based Approaches Challenges and Perspective is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

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