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Efficient Learning Machines

Theories, Concepts, and Applications for Engineers and System Designers

Mariette Awad and Rahul Khanna

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Efficient Learning Machines Theories Concepts And Applications For Engineers And System Designers

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Efficient Learning Machines Mariette Awad,2015 Efficient Learning Machines Mariette Awad,Rahul

Khanna,2015-04-27 Machine learning techniques provide cost effective alternatives to traditional methods for extracting underlying relationships between information and data and for predicting future events by processing existing information to train models Efficient Learning Machines explores the major topics of machine learning including knowledge discovery classifications genetic algorithms neural networking kernel methods and biologically inspired techniques Mariette Awad and Rahul Khanna s synthetic approach weaves together the theoretical exposition design principles and practical applications of efficient machine learning Their experiential emphasis expressed in their close analysis of sample algorithms throughout the book aims to equip engineers students of engineering and system designers to design and create new and more efficient machine learning systems Readers of Efficient Learning Machines will learn how to recognize and analyze the problems that machine learning technology can solve for them how to implement and deploy standard solutions to sample problems and how to design new systems and solutions Advances in computing performance storage memory unstructured information retrieval and cloud computing have coevolved with a new generation of machine learning paradigms and big data analytics which the authors present in the conceptual context of their traditional precursors Awad and Khanna explore current developments in the deep learning techniques of deep neural networks hierarchical temporal memory and cortical algorithms Nature suggests sophisticated learning techniques that deploy simple rules to generate highly intelligent and organized behaviors with adaptive evolutionary and distributed properties The authors examine the most popular biologically inspired algorithms together with a sample application to distributed datacenter management They also discuss machine learning techniques for addressing problems of multi objective optimization in which solutions in real world systems are constrained and evaluated based on how well they perform with respect to multiple objectives in aggregate Two chapters on support vector machines and their extensions focus on recent improvements to the classification and regression techniques at the core of machine learning **Artificial Intelligence in Managing Antimicrobial Resistance** Ramendra Pati

Pandey,Chung-Ming Chang,V. Samuel Raj,2025-05-30 This volume reviews the use of machine learning ML to predict antibiotic resistance in pathogens based on gene content and genome composition as data sets comprising hundreds or thousands of pathogen genomes become available One of the main goals of this work is to promote the use of ML in front line contexts while simultaneously emphasizing the additional improvements that are required to use these techniques in a secure and confident manner Given the variety of quantitative and qualitative laboratory indicators of AMR the issue of what to anticipate is not an easy one This book is intended for academia students of medical science microbiology biology and biotechnology as well as experts and scientists working in the fields of infectious diseases government health organizations and medicine **Smart Applications with Advanced Machine Learning and Human-Centred Problem Design** D. Jude

Hemanth,Utku Kose,Junzo Watada,Bogdan Patrut,2023-01-01 This book brings together the most recent quality research papers accepted and presented in the 3rd International Conference on Artificial Intelligence and Applied Mathematics in Engineering ICAIAME 2021 held in Antalya Turkey between 1 3 October 2021 Objective of the content is to provide important and innovative research for developments improvements within different engineering fields which are highly interested in using artificial intelligence and applied mathematics As a collection of the outputs from the ICAIAME 2021 the book is specifically considering research outcomes including advanced use of machine learning and careful problem designs on human centred aspects In this context it aims to provide recent applications for real world improvements making life easier and more sustainable for especially humans The book targets the researchers degree students and practitioners from both academia and the industry *Quantum Computing and Cryptography in Future Computers* Sihare, Shyam R.,2024-07-26 In recent decades computing has undergone rapid evolutions and groundbreaking developments that affect almost every sector across the world The developments of quantum computing and quantum cryptography are similarly revolutionizing computing and security with lasting impacts and implications Quantum computing and quantum cryptography will pave the path for new opportunities for the future of computing Quantum Computing and Cryptography in Future Computers discusses quantum computing and quantum cryptography principles and their impact on future computers It includes coverage of the role of quantum computing to overcome the issues of current security methods It also discusses the application of quantum computing in various areas like security blockchain and more Covering topics such as attack detection machine learning and quantum key distribution this premier reference source is an ideal resource for developers engineers practitioners security experts students and educators of higher education librarians researchers and academicians *Intelligent Prognostics for Engineering Systems with Machine Learning Techniques* Gunjan Soni,Om Prakash Yadav,Gaurav Kumar Badhotiya,Mangey Ram,2023-09-19 The text discusses the latest data driven physics based and hybrid approaches employed in each stage of industrial prognostics and reliability estimation It will be a useful text for senior undergraduate graduate students and academic researchers in areas such as industrial and production engineering electrical engineering and computer science The book Discusses basic as well as advance research in the field of prognostics Explores integration of data collection fault detection degradation modeling and reliability prediction in one volume Covers prognostics and health management PHM of engineering systems Discusses latest approaches in the field of prognostics based on machine learning The text deals with tools and techniques used to predict extrapolate forecast the process behavior based on current health state assessment and future operating conditions with the help of Machine learning It will serve as a useful reference text for senior undergraduate graduate students and academic researchers in areas such as industrial and production engineering manufacturing science electrical engineering and computer science **AI-Driven Breakthroughs in Antimicrobial Resistance** Kannan, Hemachandran,Rodriguez, Raul Villamarin,Rajaraman, Sivaramakrishnan,Pise, Anil

Audumbar,2025-04-09 AI driven breakthroughs in antimicrobial resistance AMR are transforming the way we approach pressing global health challenges As bacteria evolve to resist traditional antibiotics the need for innovative solutions increases AI plays a pivotal role in the accelerated discovery of new antimicrobial agents optimized drug development and improved diagnostics By analyzing datasets identifying patterns and simulating molecular interactions AI is enabling researchers to uncover new compounds predict resistance mechanisms and develop targeted treatments Further research into these advancements may help with drug resistant infection mitigation and preventing the consequences of antimicrobial resistance AI Driven Breakthroughs in Antimicrobial Resistance explores the intersection of artificial intelligence and the global challenge of antimicrobial resistance It delves into the innovative ways in which AI technologies are leveraged to discover new antibiotics understand resistance mechanisms and design interventions to revolutionize the treatment of infectious diseases This book covers topics such as patient care infectious diseases and machine learning and is a useful resource for computer engineers data scientists medical professionals biologists academicians and researchers *Green Computing in Network Security* Deepak Kumar Sharma,Koyel Datta Gupta,Rinky Dwivedi,2022-01-10 This book focuses on green computing based network security techniques and addresses the challenges involved in practical implementation It also explores the idea of energy efficient computing for network and data security and covers the security threats involved in social networks data centers IoT and biomedical applications *Green Computing in Network Security Energy Efficient Solutions for Business and Home* includes analysis of green security mechanisms and explores the role of green computing for secured modern internet applications It discusses green computing based distributed learning approaches for security and emphasizes the development of green computing based security systems for IoT devices Written with researchers academic libraries and professionals in mind so they can get up to speed on network security the challenges and implementation processes *Mathematical Methods in Dynamical Systems* S. Chakraverty,Subrat Kumar Jena,2023-05-19 The art of applying mathematics to real world dynamical problems such as structural dynamics fluid dynamics wave dynamics robot dynamics etc can be extremely challenging Various aspects of mathematical modelling that may include deterministic or uncertain fuzzy interval or stochastic scenarios along with integer or fractional order are vital to understanding these dynamical systems *Mathematical Methods in Dynamical Systems* offers problem solving techniques and includes different analytical semi analytical numerical and machine intelligence methods for finding exact and or approximate solutions of governing equations arising in dynamical systems It provides a singular source of computationally efficient methods to investigate these systems and includes coverage of various industrial applications in a simple yet comprehensive way *Challenges and Applications for Implementing Machine Learning in Computer Vision* Kashyap, Ramgopal,Kumar, A.V. Senthil,2019-10-04 Machine learning allows for non conventional and productive answers for issues within various fields including problems related to visually perceptive computers Applying these strategies and algorithms to

the area of computer vision allows for higher achievement in tasks such as spatial recognition big data collection and image processing There is a need for research that seeks to understand the development and efficiency of current methods that enable machines to see Challenges and Applications for Implementing Machine Learning in Computer Vision is a collection of innovative research that combines theory and practice on adopting the latest deep learning advancements for machines capable of visual processing Highlighting a wide range of topics such as video segmentation object recognition and 3D modelling this publication is ideally designed for computer scientists medical professionals computer engineers information technology practitioners industry experts scholars researchers and students seeking current research on the utilization of evolving computer vision techniques

Intelligent Computing on IoT 2.0, Big Data Analytics, and Block Chain Technology Mohammad S. Obaidat, Padmalaya Nayak, Niranjana K. Ray, 2024-05-23 The book is designed as a reference text and explores the concepts and techniques of IoT artificial intelligence AI and blockchain It also discusses the possibility of applying blockchain for providing security in various domains The specific highlight of this book is focused on the application of integrated technologies in enhancing data models better insights and discovery intelligent predictions smarter finance smart retail global verification transparent governance and innovative audit systems The book discusses the potential of blockchain to significantly increase data while boosting accuracy and integrity in IoT generated data and AI processed information It elucidates definitions concepts theories and assumptions involved in smart contracts and distributed ledgers related to IoT systems and AI approaches The book offers real world uses of blockchain technologies in different IoT systems and further studies its influence in supply chains and logistics the automotive industry smart homes the pharmaceutical industry agriculture and other areas It also presents readers with ways of employing blockchain in IoT and AI helping them to understand what they can and cannot do with blockchain The book is aimed primarily at advanced undergraduates and graduates studying computer science computer engineering electrical engineering information systems computational sciences artificial intelligence and information technology Researchers and professionals will also find this book very useful

Communication and Applied Technologies Paulo Carlos López-López, Daniel Barredo, Ángel Torres-Toukoumidis, Andrea De-Santis, Óscar Avilés, 2022-11-22 This book features selected papers from the International Conference on Communication and Applied Technologies ICOMTA 2022 jointly organized by the Universidad del Rosario Bogotá Colombia and the Universidad Politécnica Salesiana Cuenca Ecuador and as collaborators at the University of Vigo Galicia Spain the University of Santiago de Compostela Political Research Team Galicia Spain and the Network of Communication Researchers of Ecuador RICE during August 31 September 2 2022 It covers recent advances in the field of digital communication and processes digital social media software big data data mining and intelligent systems

Innovations and Advances in Cognitive Systems S. D. Prabu Ragavendiran, Vasile Daniel Pavaloaia, M. S. Mekala, Antonio Sarasa Cabezuolo, 2024-09-03 This book is a collection of carefully selected quality research contributions that report the advances in Artificial Intelligence

AI Composed of 37 individual research chapters this book explores how AI is transforming health care agriculture security image processing and more to describe how artificial intelligence AI machine learning ML and deep learning DL technologies improve patient care enhance agriculture develop smarter transportation systems and automate tasks across industries This book is for researchers professionals and enthusiasts who want to understand the future of AI and its potential applications It also serves as a valuable resource for professionals who are seeking to understand how AI will impact their industry or tech enthusiasts captivated by the potential of this transformative technology *Machine Learning Techniques Applied to Geoscience Information System and Remote Sensing* Hyung-Sup Jung, Saro Lee, 2019-09-03 As computer and space technologies have been developed geoscience information systems GIS and remote sensing RS technologies which deal with the geospatial information have been rapidly maturing Moreover over the last few decades machine learning techniques including artificial neural network ANN deep learning decision tree and support vector machine SVM have been successfully applied to geospatial science and engineering research fields The machine learning techniques have been widely applied to GIS and RS research fields and have recently produced valuable results in the areas of geoscience environment natural hazards and natural resources This book is a collection representing novel contributions detailing machine learning techniques as applied to geoscience information systems and remote sensing *A Guide to Applied Machine Learning for Biologists* Mohammad "Sufian" Badar, 2023-06-21 This textbook is an introductory guide to applied machine learning specifically for biology students It familiarizes biology students with the basics of modern computer science and mathematics and emphasizes the real world applications of these subjects The chapters give an overview of computer systems and programming languages to establish a basic understanding of the important concepts in computer systems Readers are introduced to machine learning and artificial intelligence in the field of bioinformatics connecting these applications to systems biology biological data analysis and predictions and healthcare diagnosis and treatment This book offers a necessary foundation for more advanced computer based technologies used in biology employing case studies real world issues and various examples to guide the reader from the basic prerequisites to machine learning and its applications *Intelligent Interactive Multimedia Systems for e-Healthcare Applications* Shaveta Malik, Amit Kumar Tyagi, 2022-11-30 This new volume explores how the merging of interactive multimedia with artificial intelligence has created new and advanced tools in healthcare It looks at how the latest technologies artificial intelligence deep learning machine learning big data IoT smart device etc help to manage health data diagnose health issues monitor treatment predict pandemic diseases and more The book covers several important applications of multimedia in healthcare including for data visualization purposes for computer vision for elder healthcare monitoring for detection of lung nodules for management systems using machine learning techniques and for fusion applications in medical image processing The chapter authors discuss using data mining and machine learning techniques for COVID 19 diagnosis and prediction in detecting knee osteoarthritis using texture

descriptor algorithms in applying algorithms in fetal ECG enhancement using blockchain for wearable internet of things in healthcare and more A chapter also reviews how doctors can make good use of genomics and genetic data through advanced technology The book concludes with discussions of open issues challenges and future research directions for using intelligent interactive multimedia in healthcare Key features Provides an in depth understanding of emerging technologies and integration of artificial intelligence deep learning big data IoT in healthcare Details specific applications for the use of AI big data and IoT in healthcare Discusses how AI technology can help in formulating protective measures for COVID 19 and other diseases Includes case studies Intelligent Interactive Multimedia Systems for e Healthcare Applications will be valuable to undergraduate and graduate students planning their careers in either industry or research and to software engineers for using multimedia with artificial intelligence deep learning big data and IoT for healthcare applications

Machine Learning Tools for Chemical Engineering Francisco Javier López-Flores, Rogelio Ochoa-Barragán, Alma Yunuen Raya-Tapia, César Ramírez-Márquez, José Maria Ponce-Ortega, 2025-05-15 Machine Learning Tools for Chemical Engineering Methodologies and Applications examines how machine learning ML techniques are applied in the field offering precise fast and flexible solutions to address specific challenges ML techniques and methodologies offer significant advantages such as accuracy speed of execution and flexibility over traditional modeling and optimization techniques This book integrates ML techniques to solve problems inherent to chemical engineering providing practical tools and a theoretical framework combining knowledge modeling representation and management tailored to the chemical engineering field It provides a precedent for applied AI but one that goes beyond purely data centric ML It is firmly grounded in the philosophies of knowledge modeling knowledge representation search and inference and knowledge extraction and management Aimed at graduate students researchers educators and industry professionals this book is an essential resource for those seeking to implement ML in chemical processes aiming to foster optimization and innovation in the sector Outlines the current and potential future contribution of machine learning the use of data science and ultimately how to correctly use machine learning tools specifically in chemical engineering Devoted to the correct application and interpretation of the results in various phases of the development of decision support systems data collection model development training and testing as well as application in chemical engineering Examines chemical engineering specific challenges and problems including noise manufacturing equipment and domain specific solutions such as physical knowledge using relevant case study examples

Machine Learning Andrea Mechelli, Sandra Vieira, 2019-11-14 Machine Learning is an area of artificial intelligence involving the development of algorithms to discover trends and patterns in existing data this information can then be used to make predictions on new data A growing number of researchers and clinicians are using machine learning methods to develop and validate tools for assisting the diagnosis and treatment of patients with brain disorders Machine Learning Methods and Applications to Brain Disorders provides an up to date overview of how these methods can be applied to brain

disorders including both psychiatric and neurological disease This book is written for a non technical audience such as neuroscientists psychologists psychiatrists neurologists and health care practitioners Provides a non technical introduction to machine learning and applications to brain disorders Includes a detailed description of the most commonly used machine learning algorithms as well as some novel and promising approaches Covers the main methodological challenges in the application of machine learning to brain disorders Provides a step by step tutorial for implementing a machine learning pipeline to neuroimaging data in Python

Computational Modeling Applications for Climate Crisis Utku Kose,Deepak Gupta,Jose Antonio Marmolejo Saucedo,2024-09-26 Computational Modeling Applications for Climate Crisis provides readers with innovative research on the applications of computational modeling to moderate climate change The book begins with an overview and history of climate change followed by several chapters covering the concepts of computational modeling and simulation including parameters of climate change modeling the effects of human activities visualization tools and data fusion for advanced modeling applications It then proceeds to cover decision support systems modeling of technological solutions for climate change modeling of greenhouse gas emissions tracking of climate factors and modeling of earth resources In the final chapters of the book the authors cover nation based outcomes big data and optimization solutions with real world data and case studies Climate change is one of the most pressing existential issues for humans and the planet and this book covers leading edge applications of computational modeling to the vast array of interdisciplinary factors and challenges posed by climate change As life itself is a mixture of occurrences that can be mathematically modelled it is important to work with specific parameters which are critical for monitoring and controlling the dynamics of the earth natural resources technological factors and human activities Illustrates how computational modeling techniques can be used for dealing with the climate crisis including simulations multi mode data usage and visualization based research Provides case studies demonstrating innovative solutions to moderate climate change including mathematical visual and multi data based findings of applied research Authored by leading researchers in computational modeling

Intelligent Data Engineering and Automated Learning - IDEAL 2024 Vicente Julian,David Camacho,Hujun Yin,Juan M. Alberola,Vitor Beires Nogueira,Paulo Novais,Antonio Tallón-Ballesteros,2024-11-19 This two volume set LNCS 15346 and LNCS 15347 constitutes the proceedings of the 25th International Conference on Intelligent Data Engineering and Automated Learning IDEAL 2024 held in Valencia Spain during November 20 22 2024 The 86 full papers and 6 short papers presented in this book were carefully reviewed and selected from 130 submissions IDEAL 2024 is focusing on Big Data Analytics and Privacy Machine Learning Deep Learning for Real World Applications Data Mining and Pattern Recognition Information Retrieval and Management Bio and Neuro Informatics and Hybrid Intelligent Systems and Agents

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