

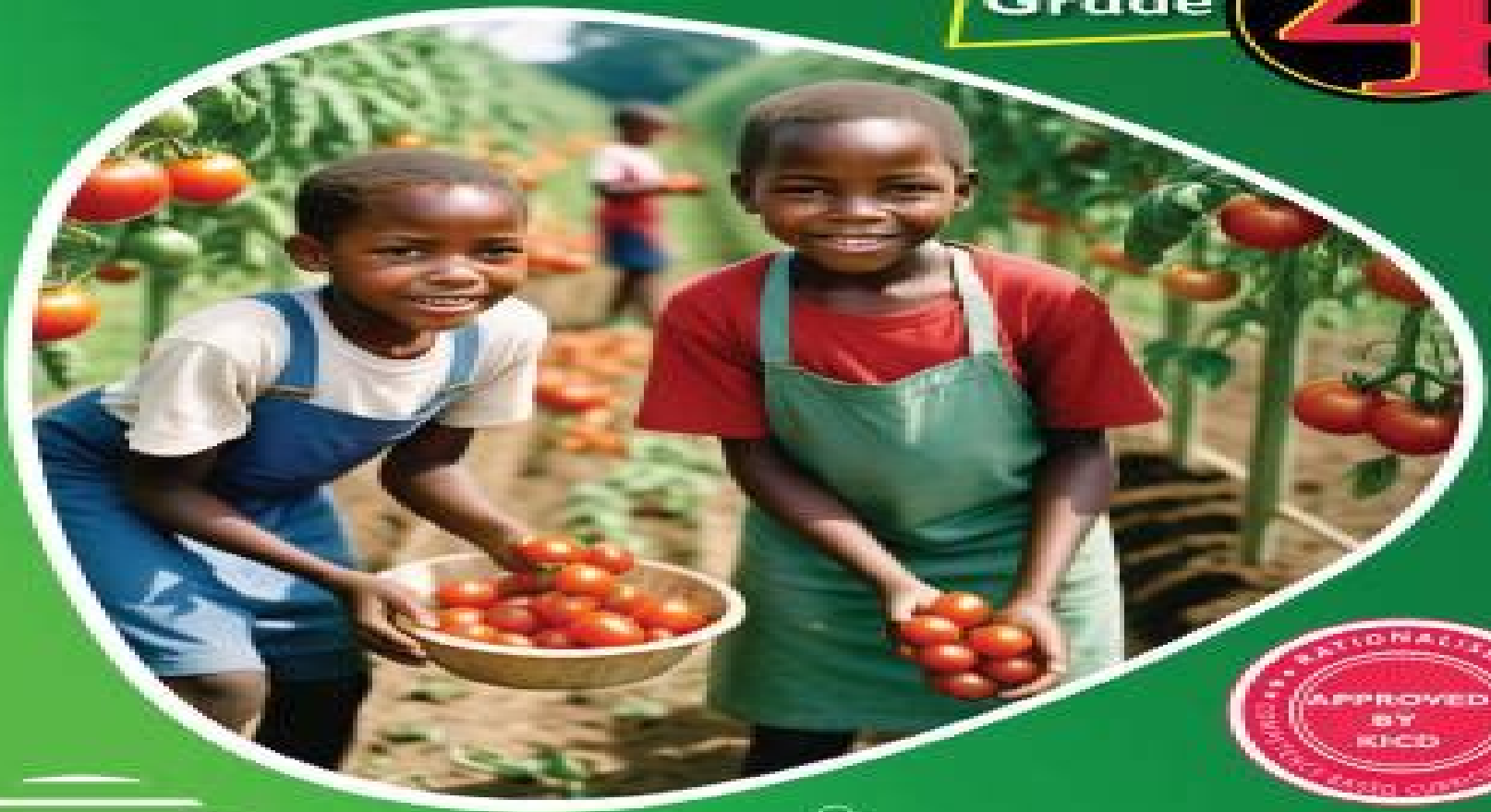
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Smart Learner Agriculture

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Smart Learner Agriculture:

Internet of Things and Machine Learning in Agriculture Jyotir Moy Chatterjee, Abhishek Kumar, Pramod Singh Rathore, Vishal Jain, 2021-02-08 Agriculture is one of the most fundamental human activities. As the farming capacity has expanded, the usage of resources such as land, fertilizer, and water has grown exponentially, and environmental pressures from modern farming techniques have stressed natural landscapes. Still, by some estimates, worldwide food production needs to increase to keep up with global food demand. Machine Learning and the Internet of Things can play a promising role in the Agricultural industry and help to increase food production while respecting the environment. This book explains how these technologies can be applied, offering many case studies developed in the research world. *Hyperautomation in Precision Agriculture* Sartajvir Singh, Vishakha Sood, Arun Lal Srivastav, Yiannis Ampatzidis, 2024-11-22 Hyperautomation in Precision Agriculture: Advancements and Opportunities for Sustainable Farming is the first book to focus on the integration of multiple techniques and technologies to create an ecosystem sustaining approach that doesn't compromise soil health or environmental safety as it increases crop yield. The book highlights the integration of state-of-the-art tools and working models to address the various challenges in the field of agriculture. It also identifies and discusses the potential and challenges of hyperautomation in sustainable agriculture with respect to efficiency improvement and human enhancement of automated operations. Hyperautomation is a true digital transformation in sustainable agriculture utilizing advanced techniques such as robotic process automation (RPA), digital process automation (DPA), unmanned aerial vehicle (UAV), controlled environment agriculture (CEA), remote sensing, Internet of Things (IoT), crop modeling, precision farming, sustainable yield, image analysis, data fusion, artificial intelligence (AI), machine learning (ML), and deep learning (DL). Provides a comprehensive overview of the current state of the art of automation in agriculture. Enables improved productivity and resource optimization. Presents advanced monitoring mapping methods in soil properties, nutrients, crop growth, and yield. **Convergence of AI, Federated Learning, and Blockchain for Sustainable Development** Mohit Kumar, Anand Nayyar, Ashutosh Kumar Singh, Yanhui Guo, 2025-09-09 This book provides current state of the art along with an insight of recent research trends and open issues, challenges, and future research direction for the academician, analyzer, researcher, writers, and authors. It also provides an opportunity to exchange knowledge in the field of IoT-enabled smart systems, Industry 4.0, networking, cyber-physical system, computing paradigms, and security with various tools and methods used for industry-oriented intelligent-based IoT applications. This advanced research edited book focuses on emerging and advancing technology: federated machine learning, blockchain, and artificial intelligence for real-time Internet of Things (IoT) application to solve the real-world problems and make the life of human more conformable. The objective of the proposed book is to develop a privacy-preserving model for IoT applications and improve the security, privacy, reliability, and sustainability of the systems. This book motivates and enhances the quality of research and commercialization in the fields of AI, Industry 4.0, federated learning, and blockchain.

Object Detection with Deep Learning Models S Poonkuntran,Rajesh Kumar Dhanraj,Balamurugan

Balusamy,2022-11-01 Object Detection with Deep Learning Models discusses recent advances in object detection and recognition using deep learning methods which have achieved great success in the field of computer vision and image processing It provides a systematic and methodical overview of the latest developments in deep learning theory and its applications to computer vision illustrating them using key topics including object detection face analysis 3D object recognition and image retrieval The book offers a rich blend of theory and practice It is suitable for students researchers and practitioners interested in deep learning computer vision and beyond and can also be used as a reference book The comprehensive comparison of various deep learning applications helps readers with a basic understanding of machine learning and calculus grasp the theories and inspires applications in other computer vision tasks Features A structured overview of deep learning in object detection A diversified collection of applications of object detection using deep neural networks Emphasize agriculture and remote sensing domains Exclusive discussion on moving object detection

Machine Learning and Internet of Things for Societal Issues Ch. Satyanarayana,Xiao-Zhi Gao,Choo-Yee Ting,Naresh Babu Muppalaneni,2022-02-25

This book highlights recent advance in the area of Machine Learning and IoT and their applications to solve societal issues problems or useful for various users in the society It is known that many smart devices are interconnected and the data generated is being analyzed and processed with machine learning models for prediction classification etc to solve human needs in various sectors like health road safety agriculture and education This contributed book puts together chapters concerning the use of intelligent techniques in various aspects related to the IoT domain from protocols to applications to give the reader an up to date picture of the state of the art on the connection between computational intelligence machine learning and IoT

Application of Machine Learning in Agriculture Mohammad Ayoub Khan,Rijwan Khan,Mohammad Aslam Ansari,2022-05-14

Application of Machine Learning in Smart Agriculture is the first book to present a multidisciplinary look at how technology can not only improve agricultural output but the economic efficiency of that output as well Through a global lens the book approaches the subject from a technical perspective providing important knowledge and insights for effective and efficient implementation and utilization of machine learning As artificial intelligence techniques are being used to increase yield through optimal planting fertilizing irrigation and harvesting these are only part of the complex picture which must also take into account the economic investment and its optimized return The performance of machine learning models improves over time as the various mathematical and statistical models are proven Presented in three parts Application of Machine Learning in Smart Agriculture looks at the fundamentals of smart agriculture the economics of the technology in the agricultural marketplace and a diverse representation of the tools and techniques currently available and in development This book is an important resource for advanced level students and professionals working with artificial intelligence internet of things technology and agricultural

economics Addresses the technology of smart agriculture from a technical perspective Reveals opportunities for technology to improve and enhance not only yield and quality but the economic value of a food crop Discusses physical instruments simulations sensors and markets for machine learning in agriculture Revolutionizing Education With Remote Experimentation and Learning Analytics Ponnusamy, Sivaram,Antari, Jilali,Jeon, Gwanggil,Assaf, Mansour,Sharma, Bhisham,2025-03-28 Education is undergoing critical transformations driven by innovations in remote experimentation and learning analytics As technology reshapes how we teach and learn remote experimentation allows students to conduct hands on interactive experiments from anywhere in the world breaking down geographical and resource based barriers This shift enhances access to advanced learning opportunities while fostering engagement and practical understanding in fields traditionally reliant on in person labs Learning analytics harness the power of data to track student progress personalize learning experiences and identify areas for improvement in real time Together these tools revolutionize education by providing more flexible inclusive and data driven approaches that can adapt to individual learning needs paving the way for an effective and accessible global education system Revolutionizing Education With Remote Experimentation and Learning Analytics explores how digital technology may change how schools work It examines learning analytics and remote experimentation for improved education while delving into the most recent findings and cutting edge approaches This book covers topics such as data analysis higher education and student engagement and is a useful resource for educators academicians researchers data scientists computer engineers and sociologists Soft Computing and Machine Learning Mohd Anas Wajid,Aasim Zafar,Mohammad Saif Wajid,Akib Mohi Ud Din Khanday,Pronaya Bhattacharya,2025-04-28 This reference text covers the theory and applications of soft computing and machine learning and presents readers with the intelligent fuzzy and neutrosophic rules that require situations where classical modeling approaches cannot be utilized such as when there is incomplete unclear or imprecise information at hand or inadequate data It further illustrates topics such as image processing and power system analysis This book Discusses soft computing techniques including fuzzy Logic rough sets neutrosophic sets neural networks generative adversarial networks and evolutionary computation Examines novel and contemporary advances in the fields of soft computing fuzzy computing neutrosophic computing and machine learning systems as well as their applications in real life Serves as a comprehensive reference for applying machine learning and neutrosophic sets in real world applications such as smart cities healthcare and the Internet of Things Covers topics such as image processing bioinformatics natural language processing supply chain management and cybernetics Illustrates classification of neutrosophic machine learning neutrosophic reinforcement learning and applications of neutrosophic machine learning in emerging industries The text is written for senior undergraduate students graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering computer science and engineering and information technology *Reshaping Environmental Science Through Machine Learning and IoT*

Gupta, Rajeev Kumar,Jain, Arti,Wang, John,Pateriya, Rajesh Kumar,2024-05-06 In the face of escalating environmental challenges such as climate change air and water pollution and natural disasters traditional approaches to understanding and addressing these issues have yet to be proven sufficient Academic scholars are compelled to seek innovative solutions that marry digital intelligence and natural ecosystems Reshaping Environmental Science Through Machine Learning and IoT serves as a comprehensive exploration into the transformative potential of Machine Learning ML and the Internet of Things IoT to address critical environmental challenges The book establishes a robust foundation in ML and IoT explaining their relevance to environmental science As the narrative unfolds it delves into diverse applications providing theoretical insights alongside practical knowledge From interpreting weather patterns to predicting air and water quality the book navigates through the intricate web of environmental complexities Notably it unveils approaches to disaster management waste sorting and climate change monitoring showcasing the symbiotic relationship between digital intelligence and natural ecosystems This book is ideal for audiences from students and researchers to data scientists and disaster management professionals with a nuanced understanding of IoT ML and Artificial Intelligence AI *Sustainable Farming through Machine Learning* Suneeta Satpathy,Bijay Kumar Paikaray,Ming Yang,Arun Balakrishnan,2024-11-25 This book explores the transformative potential of machine learning ML technologies in agriculture It delves into specific applications such as crop monitoring disease detection and livestock management demonstrating how artificial intelligence machine learning AI ML can optimize resource management and improve overall productivity in farming practices Sustainable Farming through Machine Learning Enhancing Productivity and Efficiency provides an in depth overview of AI and ML concepts relevant to the agricultural industry It discusses the challenges faced by the agricultural sector and how AI ML can address them The authors highlight the use of AI ML algorithms for plant disease and pest detection and examine the role of AI ML in supply chain management and demand forecasting in agriculture It includes an examination of the integration of AI ML with agricultural robotics for automation and efficiency The authors also cover applications in livestock management including feed formulation and disease detection they also explore the use of AI ML for behavior analysis and welfare assessment in livestock Finally the authors also explore the ethical and social implications of using such technologies This book can be used as a textbook for students in agricultural engineering precision farming and smart agriculture It can also be a reference book for practicing professionals in machine learning and deep learning working on sustainable agriculture applications Handbook of Research on Deep Learning Techniques for Cloud-Based Industrial IoT Swarnalatha, P.,Prabu, S.,2023-07-03 Today s business world is changing with the adoption of the internet of things IoT IoT is helping in prominently capturing a tremendous amount of data from multiple sources Realizing the future and full potential of IoT devices will require an investment in new technologies The Handbook of Research on Deep Learning Techniques for Cloud Based Industrial IoT demonstrates how the computer scientists and engineers of today might employ artificial intelligence in practical

applications with the emerging cloud and IoT technologies The book also gathers recent research works in emerging artificial intelligence methods and applications for processing and storing the data generated from the cloud based internet of things Covering key topics such as data cybersecurity blockchain and artificial intelligence this premier reference source is ideal for industry professionals engineers computer scientists researchers scholars academicians practitioners instructors and students

Internet of Things (IoT) Mansaf Alam,Kashish Ara Shakil,Samiya Khan,2020-05-25 This books objective is to explore the concepts and applications related to Internet of Things with the vision to identify and address existing challenges Additionally the book provides future research directions in this domain and explores the different applications of IoT and its associated technologies Studies investigate applications for crowd sensing and sourcing as well as smart applications to healthcare solutions agriculture and intelligent disaster management This book will appeal to students practitioners industry professionals and researchers working in the field of IoT and its integration with other technologies to develop comprehensive solutions to real life problems

Sustainable Development through Machine Learning, AI and IoT Pawan Whig,Nuno Silva,Ahmed A. Elngar,Nagender Aneja,Pavika Sharma,2023-11-18 This book constitutes the revised selected papers of the First International Conference ICSD 2023 virtually held in Delhi India during July 15 16 2023 The book comprises 31 full papers that were selected from a total of 129 submissions It provides insights into the latest research and advancements in sustainable development through the integration of machine learning artificial intelligence and IoT technologies It serves as a valuable resource for researchers practitioners and policymakers working in the field of sustainable development

Computational Intelligence in Internet of Agricultural Things M. G. Sumithra,Malathy Sathyamoorthy,M. Manikandan,Rajesh Kumar Dhanaraj,Mariya Ouaisa,2024-08-27 This book focuses on the integration of IoT and AI techniques to generate greater data driven solutions for the agriculture industry It also focuses on computational intelligence CI machine learning and AI techniques along with current applications obstacles and potential challenges and solutions for agricultural industries These technologies have the potential to curtail resource wastage and contribute to addressing the challenges of feeding the expanding global population This book acts as a resource to augment the reader s comprehension of the role of emerging IT technologies in the agricultural sector This book also covers key technologies and techniques such as AI ML and IoT in the development of smart agriculture and provides information on various types of smart farming technology platforms and machine learning algorithms with case studies based on real time problems

Data Analytics and Machine Learning Pushpa Singh,Asha Rani Mishra,Payal Garg,2024-03-19 This book presents an in depth analysis of successful data driven initiatives highlighting how organizations have leveraged data to drive decision making processes optimize operations and achieve remarkable outcomes Through case studies readers gain valuable insights and learn practical strategies for implementing data analytics big data and machine learning solutions in their own organizations The book discusses the transformative power of data analytics and big data in various industries and sectors

and how machine learning applications have revolutionized exploration by enabling advanced data analysis techniques for mapping geospatial analysis and environmental monitoring enhancing our understanding of the world and its dynamic processes This book explores how big data explosion the power of analytics and machine learning revolution can bring new prospects and opportunities in the dynamic and data rich landscape It highlights the future research directions in data analytics big data and machine learning that explores the emerging trends challenges and opportunities in these fields by covering interdisciplinary approaches such as handling and analyzing real time and streaming data Recent Advances in Sciences, Engineering, Information Technology & Management Dinesh Goyal,Bhanu Pratap,Sandeep Gupta,Saurabh Raj,Rekha Rani Agrawal,Indra Kishor,2025-02-14 This conference covered various interdisciplinary areas such as applied science physics material science and engineering The audience got a chance to encircle the various interdisciplinary areas and people working on recent technologies in science engineering information technology and management It was based on the theme of converging interdisciplinary topics into a single platform which helped the participants to think beyond their area and increase their canvas of research **Methods and Applications for Modeling and Simulation of Complex Systems** Fazilah Hassan,Noorhazirah Sunar,Mohd Ariffanan Mohd Basri,Mohd Saiful Azimi Mahmud,Mohamad Hafis Izran Ishak,Mohamed Sultan Mohamed Ali,2023-10-12 This book constitutes the refereed proceedings of the 22nd Asia Simulation Conference on Methods and Applications for Modeling and Simulation of Complex Systems AsiaSim 2023 held in Langkawi Malaysia during October 25 26 2023 The 77 full papers included in this book were carefully reviewed and selected from 164 submissions They were organized in topical sections as follows Modelling and Simulation Artificial intelligence Industry 4 0 Digital Twins Modelling Simulation and Gaming Simulation for Engineering Simulation for Sustainable Development Simulation in Social Sciences Intelligent Systems and Machine Learning for Industry P. R Anisha,C. Kishor Kumar Reddy,Nhu Gia Nguyen,Megha Bhushan,Ashok Kumar,Marlia Mohd Hanafiah,2022-12-21 The book explores the concepts and challenges in developing novel approaches using the Internet of Things intelligent systems machine intelligence systems and data analytics in various industrial sectors such as manufacturing smart agriculture smart cities food processing environment defense stock market and healthcare Further it discusses the latest improvements in the industrial sectors using machine intelligence learning and intelligent systems techniques especially robotics Features Highlights case studies and solutions to industrial problems using machine learning and intelligent systems Covers applications in smart agriculture smart healthcare intelligent machines for disaster management and smart manufacturing Provides the latest methodologies using machine intelligence systems in the early forecasting of weather Examines the research challenges and identifies the gaps in data collection and data analysis especially imagery signal and speech Provides applications of digitization and smart processing using the Internet of Things and effective intelligent agent systems in manufacturing Discusses a systematic and exhaustive analysis of intelligent software effort estimation models It will serve as an ideal reference text for graduate

students post graduate students IT Professionals and academic researchers in the fields of electrical engineering electronics and communication engineering computer engineering and information technology **Machine Learning for Plant Biology** Jen-Tsung Chen,2026-03-16 A comprehensive and current summary of machine learning based strategies for constructing digital plant biology Machine Learning for Plant Biology provides a comprehensive summary of the latest developments in machine learning ML technologies emphasizing their role in analyzing complex biological networks of plants and in modeling the responses of major crops to biotic and abiotic stresses The combinatorial strategies discussed in this book enable readers to further their understanding of plant biology stress physiology and protection Machine Learning for Plant Biology includes information on Intelligent breeding for stress resistant and high yield crops contributing to sustainable agriculture the Sustainable Development Goals SDGs and the Paris Agreement Interactions between plants pathogens and environmental stresses through omics approaches functional genomics genome editing and high throughput technologies State of the art AI tools including machine and deep learning models as well as generative AI Applications include species identification systems biology functional genomics genomic selection phenotyping synthetic biology spatial omics plant disease diagnosis and protection and plant secondary metabolism Machine Learning for Plant Biology is an essential reference on the subject for scientists plant biologists crop breeders and students interested in the development of sustainable agriculture in the face of a changing global climate Revolutionizing Cybersecurity With Deep Learning and Large Language Models Zangana, Hewa Majeed,Al-Karaki, Jamal,Omar, Marwan,2025-04-08 As cyber threats grow national security measures struggle to keep pace with sophisticated attacks Deep learning and large language models LLMs revolutionize cybersecurity by enabling advanced threat detection automated response mechanisms and analytics AI technologies can analyze vast amounts of data recognize patterns and identify threats to security systems Using deep learning and LLMs to transform cybersecurity is essential for addressing both their potential and the challenges that come with their adoption Revolutionizing Cybersecurity With Deep Learning and Large Language Models explores the intersection of AI cybersecurity deep learning and LLMs and the potential of these technologies in safeguarding the digital world It examines real world applications ethical challenges and new technological advancements This book covers topics such as artificial intelligence cybersecurity and threat detection and is a useful resource for academicians researchers security professionals computer engineers and data scientists

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