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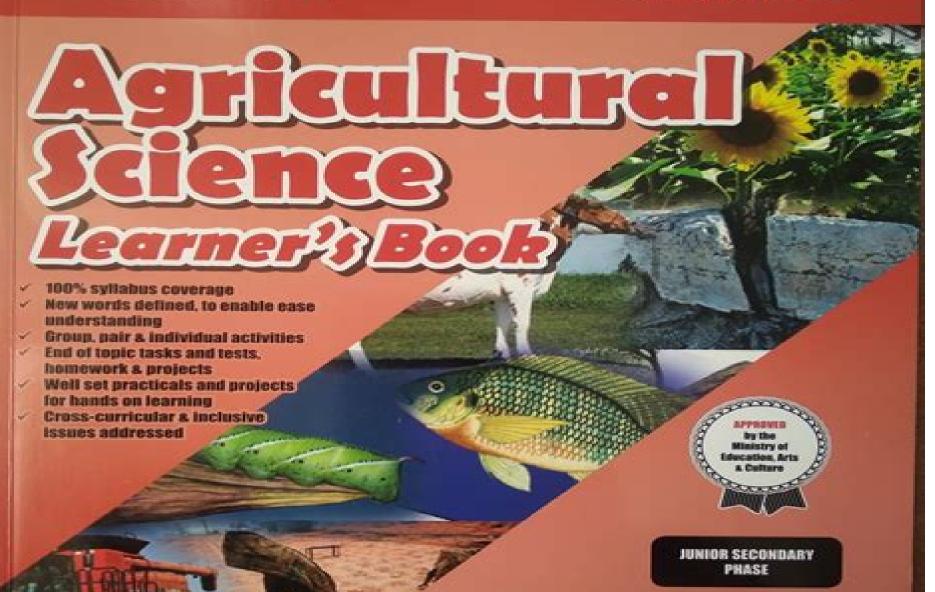by the Ministry of Education, Arts & Culture

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Smart Learner Agricultural Science

Sharma, Avinash Kumar,Chanderwal, Nitin,Khan, Rijwan

Smart Learner Agricultural Science:

Smart Agricultural Services Using Deep Learning, Big Data, and IoT Gupta, Amit Kumar,Goyal, Dinesh,Singh, Vijander,Sharma, Harish,2020-10-30 The agricultural sector can benefit immensely from developments in the field of smart farming However this research area focuses on providing specific fixes to particular situations and falls short on implementing data driven frameworks that provide large scale benefits to the industry as a whole Using deep learning can bring immense data and improve our understanding of various earth sciences and improve farm services to yield better crop production and profit Smart Agricultural Services Using Deep Learning Big Data and IoT is an essential publication that focuses on the application of deep learning to agriculture While highlighting a broad range of topics including crop models cybersecurity and sustainable agriculture this book is ideally designed for engineers programmers software developers agriculturalists farmers policymakers researchers academicians and students   Machine Learning and Artificial Intelligence for Smart Agriculture Chuanlei Zhang,Dong Sun Park,Sook Yoon,Shanwen Zhang,2023-02-09   **Intelligent Systems and Advanced Computing Sciences** Hani Hagras,Younes Bennani,Mohamed Nemiche,2025-07-01 This book constitutes revised selected papers from the thoroughly refereed conference proceedings of the 4th International Conference on Intelligent Systems and Advanced Computing Sciences ISACS 2023 which took place in Taza Morocco in October 26 27 2023 The 30 full papers and 8 short papers presented in these proceedings were carefully reviewed and selected from 131 submissions This conference focusing on all theoretical and practical aspects related to information technology and communications security   *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   *Federated Learning for Smart Communication using IoT Application* Kaushal Kishor,Parma Nand,Vishal Jain,Neetesh Saxena,Gaurav Agarwal,Rani Astya,2024-10-30 The effectiveness of federated learning in high performance information systems and informatics based solutions for addressing current information support requirements is demonstrated in this book To address heterogeneity challenges in Internet of Things IoT contexts Federated Learning for Smart Communication using IoT Application analyses the development of personalized federated learning algorithms capable of mitigating the detrimental consequences of heterogeneity in several dimensions It includes case studies of IoT based human activity recognition to show the efficacy of personalized federated learning for intelligent IoT applications Features

Demonstrates how federated learning offers a novel approach to building personalized models from data without invading users privacy Describes how federated learning may assist in understanding and learning from user behavior in IoT applications while safeguarding user privacy Presents a detailed analysis of current research on federated learning providing the reader with a broad understanding of the area Analyses the need for a personalized federated learning framework in cloud edge and wireless edge architecture for intelligent IoT applications Comprises real life case illustrations and examples to help consolidate understanding of topics presented in each chapter This book is recommended for anyone interested in federated learning based intelligent algorithms for smart communications   Machine Learning and Deep Learning for Smart Agriculture and Applications Hashmi, Mohamamd Farukh,Kesakr, Avinash G.,2023-08-29 Machine Learning and Deep Learning for Smart Agriculture and Applications delves into the captivating realm of artificial intelligence and its pivotal role in transforming the landscape of modern agriculture With a focus on precision agriculture digital farming and emerging concepts this book illuminates the significance of sustainable food production and resource management in the face of evolving digital hardware and software technologies Geospatial technology robotics the Internet of Things IoT and data analytics converge with machine learning and big data to unlock new possibilities in agricultural management This book explores the synergy between these disciplines offering cutting edge insights into data intensive processes within operational agricultural environments From automated irrigation systems and agricultural drones for field analysis to crop monitoring and precision agriculture the applications of machine learning are far reaching Animal identification and health monitoring also benefit from these advanced techniques With practical case studies on vegetable and fruit leaf disease detection drone based agriculture and the impact of pesticides on plants this book provides a comprehensive understanding of the applications of machine learning and deep learning in smart agriculture It also examines various modeling techniques employed in this field and showcases how artificial intelligence can revolutionize plant disease detection This book serves as a comprehensive guide for researchers practitioners and students seeking to harness the power of AI in transforming the agricultural landscape   *Computer Vision in Smart Agriculture and Crop Management* Rajesh Kumar Dhanaraj,Balamurugan Balusamy,Prithi Samuel,Malathy Sathyamoorthy,Ali Kashif Bashir,2024-12-24 This book is essential for anyone interested in understanding how smart agriculture utilizing information and technology such as computer vision and deep learning can revolutionize agriculture productivity resolve ongoing concerns and enhance economic and general effectiveness in farming The need for a reliable food supply has driven the development of smart agriculture which leverages technology to assist farmers especially in remote areas A key component is computer vision CV technology which combined with deep learning can manage agricultural productivity and enhance automation systems for improved efficiency and cost effectiveness Automation in agriculture ensures benefits like reduced costs high performance and accuracy Aerial imaging and high throughput research enable effective crop monitoring and management Computer vision and AI models aid in

detecting plant health impurities and pests supporting sustainable farming This book explores using CV and AI to develop smart agriculture through deep learning data mining and intelligent applications   *AI in Agriculture for Sustainable and Economic Management* Sirisha Potluri,Suneeta Satpathy,Santi Swarup Basa,Antonio Zuorro,2024-08-01 This book explains the best practices and their respective outcomes in artificial intelligence AI to meet sustainable development goals and demands It examines the practices technologies and innovations at the core of various research issues to meet the sustainable development demands in agriculture to balance social economic and environmental sustainability with AI AI in Agriculture for Sustainable and Economic Management discusses AI driven nanotechnology approaches for precision agriculture and solutions for the optimization of farming resources and their management The authors examine the impact of AI in agriculture and how technology driven sustainable farming with smart waste water treatment for zero waste for the circular economy can extend crop shelf life It discusses how AI expertise can be advantageous to envisage and evaluate the increasing demands of productivity and to help to maintain ecosystems and strengthen the capacity for crop adaptation in response to drastic changes in climate and weather natural disasters and other significant factors These findings and practices are also useful to emphasize how an agricultural ecosystem can be advanced and industrialized so that it can aid not only large commercial farms but also smaller farmlands Finally it also discusses how AI practices will help to find a balance between the volume of food manufactured and the proper maintenance of the ecosystem This book is intended for researchers and upper graduate students interested in artificial intelligence in agricultural engineering AI advances in crop science and technology for sustainable development   *Convergence of Cloud Computing, AI, and Agricultural Science* Sharma, Avinash Kumar,Chanderwal, Nitin,Khan, Rijwan,2023-08-18 Convergence of Cloud Computing AI and Agricultural Science explores the transformative potential of integrating cutting edge technologies into the field of agriculture With the rapid advancements in cloud computing Artificial Intelligence AI and the Internet of Things IoT this research presents a comprehensive framework for monitoring agriculture farms remotely using a smart cloud based system The book delves into the application of AI based machine learning models such as the Support Vector Machine SVM to accurately classify and process the collected data This advanced research reference book also explores how digital information can provide farmers with information about international markets enabling them to make informed decisions regarding their crops With its academic tone and in depth exploration of cloud computing in smart agriculture this book serves as an essential resource for researchers academics and professionals in the fields of agriculture computer science and environmental science By examining the convergence of cloud computing AI and agricultural science it provides a roadmap for harnessing technology to revolutionize farming practices and ensure sustainable agri food systems in the digital era   **IoT and Advanced Intelligence Computation for Smart Agriculture** Mourade Azrour,Jamal Mabrouki,Sultan Ahmad,2025-08-04 Smart agriculture is an approach to maintaining nature without compromising the basic needs of future generations while at the

same time improving the efficiency of farming The main achievements of smart agriculture in terms of sustainable agriculture are crop rotation controlling nutrient deficiencies in crops pest and disease control recycling and water harvesting leading to a safer environment overall Living organisms depend on the nature of biodiversity and are exposed to pollution due to waste emissions use of fertilizers and pesticides degraded dead plants and so on The emission of greenhouse gases affects plants animals humans and the environment hence this necessitates a better environment for living organisms The purpose of this book is to provide a comprehensive overview of the latest advancements challenges and potential applications of artificial intelligence AI technology and the Internet of Things IoT in the future of intelligent agriculture The book is primarily focused on equipping younger researchers graduates and professionals in the industry with the necessary knowledge to understand the advantages of AI technology machine learning and data analytics methods in improving current agricultural practices Key features include the following The book showcases the latest advancements in AI and smart agriculture technologies The text emphasizes sustainable practices supported by AI highlighting how technology can enhance productivity while minimizing environmental impact Readers will learn how to harness big data and analytics to drive informed decision making and optimize their agricultural yields **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 **Smart Learning Ecosystems as Engines of the Green and Digital Transition** Mihai Dascalu,Óscar Mealha,Sirje Virkus,2023-09-26 The book brings together the contributions of the 8th International Conference on Smart Learning Ecosystems and Regional Development aimed at promoting reflection and discussion on the relevance of smart learning ecosystems for regional development and social innovation e g schools campuses working places informal learning contexts and on how the effectiveness of the relation of citizens and smart ecosystems can be boosted This forum is interested in

understanding how technology mediated instruments can foster the citizen s engagement with learning ecosystems and territories namely by understanding innovative human centric design and development models techniques education training practices informal social learning innovative citizen driven policies technology mediated experiences and their impact This set of concerns contributes to fostering the social innovation sectors and ICT economic development and deployment strategies alongside new policies for smarter proactive citizens   *Computational Intelligence in Internet of Agricultural Things* M. G. Sumithra,Malathy Sathyamoorthy,M. Manikandan,Rajesh Kumar Dhanaraj,Mariya Ouaissa,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   Bioinformatics in Agriculture Pradeep Sharma,Dinesh Yadav,R.K. Gaur,2022-04-28 Bioinformatics in Agriculture Next Generation Sequencing Era is a comprehensive volume presenting an integrated research and development approach to the practical application of genomics to improve agricultural crops Exploring both the theoretical and applied aspects of computational biology and focusing on the innovation processes the book highlights the increased productivity of a translational approach Presented in four sections and including insights from experts from around the world the book includes Section I Bioinformatics and Next Generation Sequencing Technologies Section II Omics Application Section III Data mining and Markers Discovery Section IV Artificial Intelligence and Agribots Bioinformatics in Agriculture Next Generation Sequencing Era explores deep sequencing NGS genomic transcriptome analysis and multiplexing highlighting practices forreducing time cost and effort for the analysis of gene as they are pooled and sequenced Readers will gain real world information on computational biology genomics applied data mining machine learning and artificial intelligence This book serves as a complete package for advanced undergraduate students researchers and scientists with an interest in bioinformatics Discusses integral aspects of molecular biology and pivotal tool sfor molecular breeding Enables breeders to design cost effective and efficient breeding strategies Provides examples ofinnovative genome wide marker SSR SNP discovery Explores both the theoretical and practical aspects of computational biology with focus on innovation processes Covers recent trends of bioinformatics and different tools and techniques   **Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough** Vinit Kumar Gunjan,Jacek M. Zurada,2021-04-26 This book provides a systematic and comprehensive overview of machine learning with cognitive science methods and technologies which have

played an important role at the core of practical solutions for a wide scope of tasks between handheld apps industrial process control autonomous vehicles environmental policies life sciences playing computer games computational theory and engineering development The chapters in this book focus on readers interested in machine learning cognitive and neuro inspired computational systems theories mechanisms and architecture which underline human and animal behaviour and their application to conscious and intelligent systems In the current version it focuses on the successful implementation and step by step explanation of practical applications of the domain It also offers a wide range of inspiring and interesting cutting edge contributions to applications of machine learning and cognitive science such as healthcare products medical electronics and gaming Overall this book provides valuable information on effective cutting edge techniques and approaches for students researchers practitioners and academicians working in the field of AI neural network machine learning and cognitive science Furthermore the purpose of this book is to address the interests of a broad spectrum of practitioners students and researchers who are interested in applying machine learning and cognitive science methods in their respective domains

Precision and Intelligence in Agriculture: Advanced Technologies for Sustainable Farming Whig, Pawan,Elngar, Ahmed,2025-06-19 The integration of advanced technologies enables farmers to optimize resources and make more informed decisions This shift toward smart farming not only enhances productivity and profitability but also supports sustainability by reducing waste conserving water and minimizing chemical inputs As the agricultural sector faces the dual challenge of feeding a rising population and combating climate change precision and intelligent technologies represent a vital path forward for resilient and responsible farming practices Precision and Intelligence in Agriculture Advanced Technologies for Sustainable Farming explores the way artificial intelligence and other technologies have transformed the agricultural sector It further discusses how these technologies can be used in support of sustainable farming Covering topics such agriculture 4 0 hydroponics and precision agriculture this book is an excellent resource for academics policymakers and researchers

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 *Optimizing Smart and Sustainable Agriculture for Sustainability* Biswaranjan Acharya,Ankita Bansal,Abha Jain,Rachna Jain,Joel J. P. C. Rodrigues,2025-07-07 This reference text addresses the importance of smart crop management for increasing yield and presents a framework for smart monitoring and regulation of crop observation Further it comprehensively covers important topics such as spatial decision support systems for precision farming swarm intelligence in the optimal management of aquaculture farms and intelligent harvesting algorithms for improving productivity This book Presents meta heuristic algorithms for optimization economic crop planning and use of effective water resource management Discusses spatial decision support systems for crop productivity management watershed management and precision farming Illustrates swarm intelligence based optimization techniques data mining and machine learning methods for aquaculture operations Highlights artificial intelligence and machine learning based harvesting algorithms for improving productivity Explains the use of green Internet of Things security solutions for agriculture plant condition management and greenhouse simulation It is primarily written for graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer science and engineering agricultural science and information technology **The 2020 International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy** John MacIntyre,Jinghua Zhao,Xiaomeng Ma,2020-11-04 This book presents the proceedings of The 2020 International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy SPIoT 2020 held in Shanghai China on November 6 2020 Due to the COVID 19 outbreak problem SPIoT 2020 conference was held online by Tencent Meeting It provides comprehensive coverage of the latest advances and trends in information technology science and engineering addressing a number of broad themes including novel machine learning and big data analytics methods for IoT security data mining and statistical modelling for the secure IoT and machine learning based security detecting protocols which inspire the development of IoT security and privacy technologies The contributions cover a wide range of topics analytics and machine learning applications to IoT security data based metrics and risk assessment approaches for IoT data confidentiality and privacy in IoT and authentication and access control for data usage in IoT Outlining promising future research directions the book is a valuable resource for students researchers and professionals and provides a useful reference guide for newcomers to the IoT security and privacy field Deep Learning for Sustainable Agriculture Ramesh Chandra Poonia,Vijander Singh,Soumya Ranjan Nayak,2022-01-09 The evolution of deep learning models combined with with advances in the Internet of Things and sensor technology has gained more importance for weather forecasting plant disease detection underground water detection soil quality crop condition monitoring and many other issues in the field of agriculture agriculture Deep Learning for Sustainable Agriculture discusses topics such as the impactful role of deep

learning during the analysis of sustainable agriculture data and how deep learning can help farmers make better decisions It also considers the latest deep learning techniques for effective agriculture data management as well as the standards established by international organizations in related fields The book provides advanced students and professionals in agricultural science and engineering geography and geospatial technology science with an in depth explanation of the relationship between agricultural inference and the decision support amenities offered by an advanced mathematical evolutionary algorithm Introduces new deep learning models developed to address sustainable solutions for issues related to agriculture Provides reviews on the latest intelligent technologies and algorithms related to the state of the art methodologies of monitoring and mitigation of sustainable agriculture Illustrates through case studies how deep learning has been used to address a variety of agricultural diseases that are currently on the cutting edge Delivers an accessible explanation of artificial intelligence algorithms making it easier for the reader to implement or use them in their own agricultural domain

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