

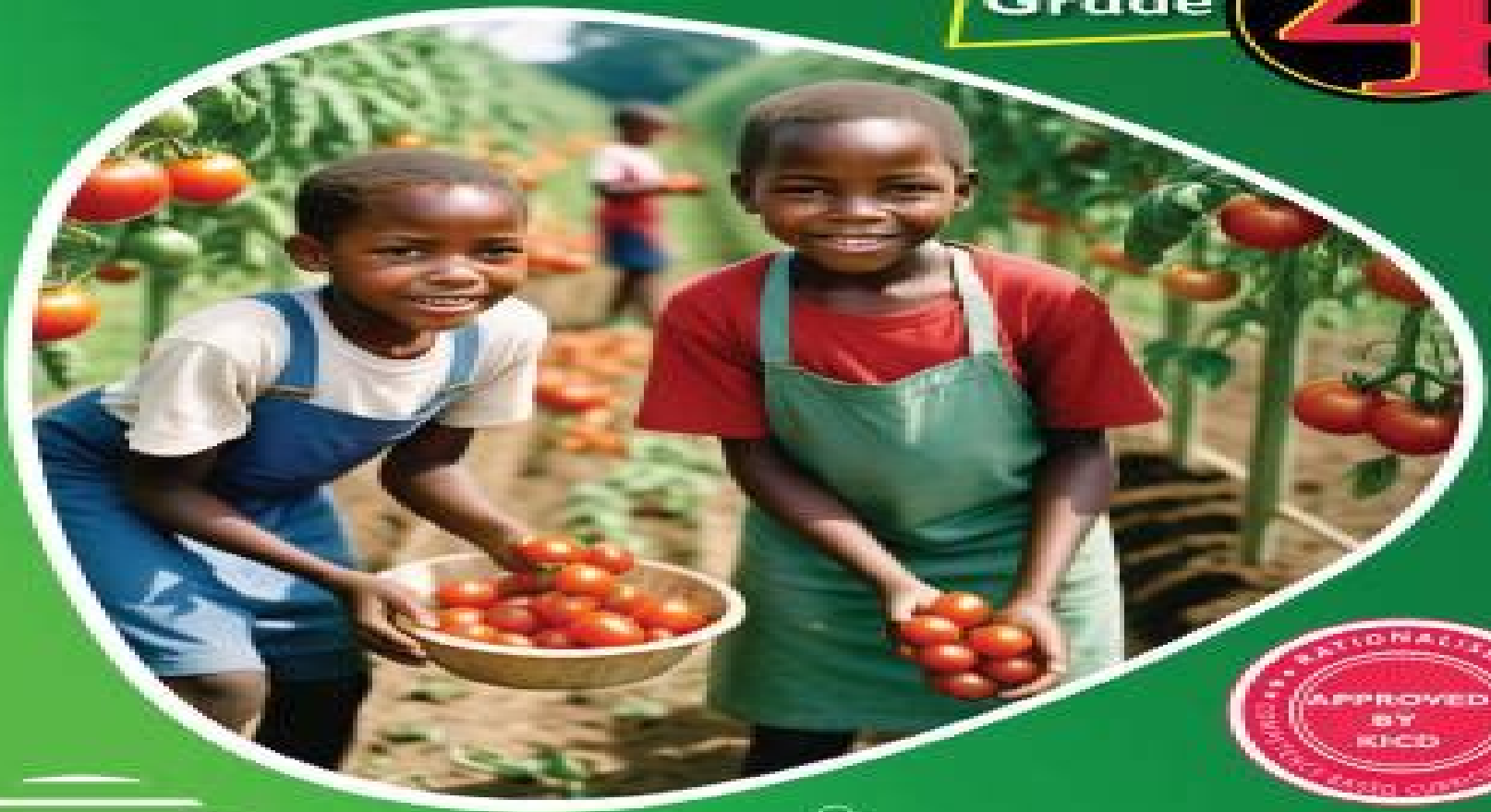
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Smart Learner Agriculture And Life Science

Jeong-Yeol Yoon,Chenxu Yu



Smart Learner Agriculture And Life Science:

Machine Learning and Artificial Intelligence for Smart Agriculture Chuanlei Zhang, Dong Sun Park, Sook Yoon, Shanwen Zhang, 2023-02-09 **Applied Data Science and Smart Systems** Jaiteg Singh, SB Goyal, Rajesh Kumar Kaushal, Naveen Kumar, Sukhjit Singh Sehra, 2024-07-22 The Second International Conference on Applied Data Science and Smart Systems ADSSS 2023 was held on 15-16 December 2023 at Chitkara University Punjab India. This multidisciplinary conference focussed on innovation and progressive practices in science, technology, and management. The conference successfully brought together researchers, academicians, and practitioners across different domains such as artificial intelligence and machine learning, software engineering, automation, data science, business computing, data communication, and computer networks. The presenters shared their most recent research works that are critical to contemporary business and societal landscape and encouraged the participants to devise solutions for real-world challenges. The Open Access version of this book available at www.taylorfrancis.com has been made available under a Creative Commons Attribution-NonCommercial-NoDerivatives CC BY-NC-ND 4.0 license.

Applications of artificial intelligence, machine learning, and deep learning in plant breeding Maliheh Eftekhari, Chuang Ma, Yuriy L. Orlov, 2024-05-29 Artificial Intelligence (AI) is an extensive concept that can be interpreted as a concentration on designing computer programs to train machines to accomplish functions like or better than humans. An important subset of AI is Machine Learning (ML) in which a computer is provided with the capacity to learn its own patterns instead of the patterns and restrictions set by a human programmer, thus improving from experience. Deep Learning (DL) as a class of ML techniques employs multilayered neural networks. The application of AI to plant science research is new and has grown significantly in recent years due to developments in calculation power, proficiencies of hardware, and software progress. AI algorithms try to provide classifications and predictions. As applied to plant breeding, particularly omics data, ML as a given AI algorithm tries to translate omics data which are intricate and include nonlinear interactions into precise plant breeding. The applications of AI are extending rapidly and enhancing intensely in sophistication owing to the capability of rapid processing of huge and heterogeneous data. The conversion of AI techniques into accurate plant breeding is of great importance and will play a key role in the new era of plant breeding techniques in the coming years, particularly multi-omics data analysis. Advancements in plant breeding mainly depend upon developing statistical methods that harness the complicated data provided by analytical technologies, identifying and quantifying genes, transcripts, proteins, metabolites, etc. The systems biology approach used in plant breeding, which integrates genomics, transcriptomics, proteomics, metabolomics, and other omics data, provides a massive amount of information. It is essential to perform accurate statistical analyses and AI methods such as ML and DL as well as optimization techniques to not only achieve an understanding of networks, regulation, and plant cell functions but also develop high-precision models to predict the reaction of new Genetically Modified (GM) plants in special conditions. The constructed models will be of

great economic importance significantly reducing the time labor and instrument costs when finding optimized conditions for the bio exploitation of plants This Research Topic covers a wide range of studies on artificial intelligence assisted plant breeding techniques which contribute to plant biology and plant omics research The relevant sub topics include but are not restricted to the following AI assisted plant breeding using omics and multi omics approaches Applying AI techniques along with multi omics to recognize novel biomarkers associated with plant biological activities Constructing up to date ML modeling and analyzing methods for dealing with omics data related to different plant growth processes AI assisted omics techniques in the plant defense process Combining AI assisted omics and multi omics techniques using plant system biology approaches Combining bioinformatics tools with AI approaches to analyze plant omics data Designing cutting edge workflow and developing innovative AI biology methods for omics data analysis

Agri-Food 4.0 Rahul S. Mor,Dinesh

Kumar,Anupama Singh,2022-03-28 Agri Food 4 0 Innovations Challenges and Strategies addresses new research on digital technologies in the Agri Food industry including smart packaging smart warehousing effective inventory control blockchain technology artificial intelligence and other Industry 4 0 concepts

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

Machine Learning and Artificial Intelligence in Chemical and Biological Sensing

Jeong-Yeol Yoon,Chenxu Yu,2024-07-07 Machine learning ML has recently become popular in chemical and biological sensing applications ML is a subset of artificial intelligence AI and other AI techniques have been used in various chemical and biological sensing Machine Learning and Artificial Intelligence in Chemical and Biological Sensing covers the theoretical background and practical applications of various ML AI methods toward chemical and biological sensing No comprehensive reference text has been available previously to cover the wide breadth of this topic The Editors have written the first three chapters to firmly introduce the reader to fundamental ML theories that can be used for chemical biosensing The subsequent chapters then cover the practical applications with contributions by various experts in the field They show how ML and AI based techniques can provide solutions for 1 identifying and quantifying target molecules when specific receptors are unavailable 2 analyzing complex mixtures of target molecules such as gut microbiome and soil microbiome3 analyzing high throughput and high dimensional data such as drug screening molecular interaction and environmental toxicant analysis 4 analyzing complex data sets where fingerprinting approach is needed This book is written primarily for upper undergraduate

students graduate students research staff and faculty members at teaching and research universities and colleges who are working on chemical sensing biosensing analytical chemistry analytical biochemistry biomedical imaging medical diagnostics environmental monitoring and agricultural applications Presents the first comprehensive reference text on the use of ML and AI for chemical and biological sensing Provides a firm grounding in the fundamental theories on ML and AI before covering the practical applications with contributions by various experts in the field Includes a wide array of practical applications covered including E nose Raman SERS lens free imaging multi hyperspectral imaging NIR optical imaging receptor free biosensing paper microfluidics single molecule analysis in biomedicine in situ protein characterization microbial population dynamics and all in one sensor systems

Digital Technologies and Tools for Smart Agriculture M. Ramasamy,K. Mohan,Pethuru Raj,Kai Sheng,2025-05-29 To meet the food requirements of the growing population worldwide the agricultural domain is being technologically empowered to produce more with fewer resources and investments Fortunately the faster maturity and stability of digital digitization and digitalization technologies and tools have laid a stimulating and sparking foundation for large scale production of food items with minimal time talent and treasure The penetration and pervasiveness of the Internet of Things IoT sensors and actuators are considered the first and foremost aspect of advanced and adaptive agriculture Further the device ecosystem for automated and accelerated agriculture processes and practices grows consistently The robots and drone space advancements are fascinating as they are set to transform the industry Connected robots drones and other agriculture equipment appliances instruments and machinery are flourishing towards intelligent agriculture Agriculture sensors and devices generate a lot of real time and real world digital data With the help of artificial intelligence AI methods all agriculture data are subjected to various deep and decisive investigations to extract actionable insights in time Other noteworthy improvisations include the widespread deployment of 5G communication networks the growing power of edge analytics and intelligence the distinct contributions of blockchain technology the adoption and adaptation of cloud native computing principles the phenomenon of digital twins etc in the digital space All these developments have led to the realization of smart agriculture products solutions and services Features Delineate the role and responsibilities of digital technologies towards smart agriculture Delve into the potential of IoT and AI along with other critical technological advancement Demystify large language models LLMs and visual language models VLMs Dig deep and delve into the advancements in the robots and drone space Describe how digital innovations can significantly elevate agriculture processes platforms patterns and practices This book will delve into the transformative power of digital technologies in agriculture particularly in the context of smart agriculture It will highlight how these technologies and innovative digital devices are reshaping the agricultural landscape The book will also showcase the disruptive potential of these technologies illustrating how they are revolutionizing traditional farming practices and processes

Next-gen Biology: Ai's Transformative Impact On Life Sciences Jasmine Jemimah Jeyanthi R,Anita Margret A, Chrisanne Freeman,

Mrs. Merlyn Diana A S, Preyenga Ramesh,2025-03-19 The book Next Gen Biology AI s Transformative impact on Life sciences explores the integration of AI in biotechnology healthcare and agriculture It delves into fundamental AI concepts machine learning applications in clinical and genomic diagnostics and AI driven approaches for diagnosing genetic psychiatric and infectious diseases The book also highlights AI s role in systems biology pharmacogenomics and disease management including its impact on pandemic response Additionally it examines AI powered advancements in agriculture such as soil analysis weather tracking and satellite imaging By bridging AI with biotechnology the book provides a comprehensive understanding of its transformative potential in research diagnostics and 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 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 The Role of Artificial Intelligence in Advancing Applied Life Sciences Emara, Tamer,Hassan,

Esraa, Trinh, Thanh, Li, Genghui, Saber, Abeer, 2025-04-29 The transformative role of artificial intelligence AI is revolutionizing the life sciences sector AI is being used to accelerate drug discovery personalize treatments and improve patient outcomes AI has demonstrated its potential in optimizing crop yields enhancing food safety and addressing global food security challenges Additionally AI has applications in climate modeling species conservation and pollution monitoring Discussion of AI implementation in life sciences may stimulate further research and development in AI driven life science solutions The Role of Artificial Intelligence in Advancing Applied Life Sciences equips readers with a solid understanding of technology's potential to address complex life science problems It also discusses the ethical implications and challenges associated with AI implementation in this field Covering topics such as biomanufacturing disease identification and climate change patterns this book is an excellent resource for life scientists computer scientists healthcare practitioners environmentalists agriculturalists professionals researchers scholars academicians and more 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 **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

Digital (Eco) Systems and Societal Challenges Alessio Maria Braccini, Francesca Ricciardi, Francesco Virili, 2024-12-13 This book presents a collection of research papers that aim to elucidate the pivotal role of digital systems in driving the formation and evolution of digital ecosystems thereby shaping new scenarios for organizing in the digital age by considering people practices organizational processes and system design issues Each chapter offers insights into the ways in which digital systems and digital ecosystems contribute to addressing societal challenges promoting sustainable development enhancing collaboration and mitigating the negative effects of technological disruption Using a multidisciplinary perspective and multimethodological approaches it explores the impact of digital ecosystems on governance structures economic models and social dynamics and provides insights into the transformative potential of digitalization in shaping the future of societies worldwide The diversity of perspectives makes this book particularly relevant for academics businesses and public sector organizations The content of the book is based on the revised versions of a selection of the best papers presented at the annual conference of the Italian Section of the AIS in October 2023 in Turin Italy

Innovative Learning Environments in STEM Higher Education Jungwoo Ryoo, Kurt Winkelmann, 2021-03-11 As explored in this open access book higher education in STEM fields is influenced by many factors including education research government and school policies financial considerations technology limitations and acceptance of innovations by faculty and students In 2018 Drs Ryoo and Winkelmann explored the opportunities challenges and future research initiatives of innovative learning environments ILEs in higher education STEM disciplines in their pioneering project eXploring the Future of Innovative Learning Environments X FILES Workshop participants evaluated four main ILE categories personalized and adaptive learning multimodal learning formats cross extended reality XR and artificial intelligence AI and machine learning ML This open access book gathers the perspectives expressed during the X FILES workshop and its follow up activities It is designed to help inform education policy makers researchers developers and practitioners about the adoption and implementation of ILEs in higher education

Applying Drone Technologies and Robotics for Agricultural Sustainability Raj, Pethuru, Saini, Kavita, Pacheco, Vinicius, 2023-01-09 Many industries are affected by the growing advancements and stability of the internet of things IoT technologies and tools These include the agricultural fields With such advancements decision enabling agricultural field data gets gathered and transmitted

meticulously through numerous IoT sensors and devices deployed in agricultural fields and their surroundings Further study on these technologies is required to ensure they are utilized appropriately within the field Applying Drone Technologies and Robotics for Agricultural Sustainability conveys the latest trends and transitions happening in the digital space in order to fulfill the varying needs and sentiments of the agriculture domain Covering key topics such as deep learning robots sustainability and smart farming this premier reference source is ideal for industry professionals farmers computer scientists policymakers researchers scholars practitioners instructors and students

Intelligent Solutions for Optimizing Agriculture and Tackling Climate Change: Current and Future Dimensions Karmaoui, Ahmed, 2023-01-06 The interactions between climate change agriculture and technology are of increasing concern to academicians educators and planners After the publication of the first report of the Intergovernmental Panel on Climate Change IPCC studies of the impact of climate change on productive systems such as agriculture have multiplied The best solution can be found in new technologies and tools Intelligent Solutions for Optimizing Agriculture and Tackling Climate Change Current and Future Dimensions explores the importance of artificial intelligence and its effects on the future of agriculture It further highlights the opportunities and challenges of artificial intelligence in the agricultural field Covering topics such as agroforestry farming productivity and population projections this premier reference source is an indispensable resource for climate scientists agricultural scientists policymakers computer scientists engineers students and educators of higher education libraries researchers and academicians

Circular Economy and Technological Innovation Syed Abdul Rehman Khan, Adnan Ahmed Sheikh, Oluwaseun Kolade, Sachin Kamble, 2025-06-17 This book explores the circular economy its context methodology and commercial strategies with a focus on waste minimization recycling green marketing and sustainable business practices to facilitate resource recovery It considers IR 4.0 and 5.0 to show how smart technology innovation extends circular economy through industrial organizational sustainability and investigates circular economy technology innovation in multiple scenarios to exploit product re usability and technological innovation in Asian European and Australian contexts It discusses novel digital technologies such as blockchain additive manufacturing AI ML and IoT for global supply chain tracking This book is valuable for instructors and students in business environmental studies supply chain management product re manufacturing and marketing programs seeking cutting edge Circular Economy and Technological Innovation trends

Artificial Intelligence For Science: A Deep Learning Revolution Alok Choudhary, Geoffrey C Fox, Tony Hey, 2023-03-21 This unique collection introduces AI Machine Learning ML and deep neural network technologies leading to scientific discovery from the datasets generated both by supercomputer simulation and by modern experimental facilities Huge quantities of experimental data come from many sources telescopes satellites gene sequencers accelerators and electron microscopes including international facilities such as the Large Hadron Collider LHC at CERN in Geneva and the ITER Tokamak in France These sources generate many petabytes moving to exabytes of data per year Extracting scientific insights from these data is a

major challenge for scientists for whom the latest AI developments will be essential The timely handbook benefits professionals researchers academics and students in all fields of science and engineering as well as AI ML and neural networks Further the vision evident in this book inspires all those who influence or are influenced by scientific progress

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

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