

Grade 12

Agricultural Sciences



Smartlearner Agricultural Sciences

**Govind Singh Patel, Amrita
Rai, Nripendra Narayan Das, R.P. Singh**

Smartlearner Agricultural Sciences:

Advanced Technologies for Smart Agriculture Kalaiselvi K.,A. Jose Anand,Poonam Tanwar,Haider Raza,2024-02-27 This book brings new smart farming methodologies to the forefront sparked by pervasive applications with automated farming technology New indigenous expertise on smart agricultural technologies is presented along with conceptual prototypes showing how the Internet of Things cloud computing machine learning deep learning precision farming crop management systems etc will be used in large scale production in the future The necessity of available welfare systems for farmers well being is also discussed in the book It draws the conclusion that there is a greater need and demand today for smart farming methodologies driven by technology than ever before Smart Agriculture Govind Singh Patel,Amrita Rai,Nripendra Narayan Das,R.P. Singh,2021-02-10 This book endeavours to highlight the untapped potential of Smart Agriculture for the innovation and expansion of the agriculture sector The sector shall make incremental progress as it learns from associations between data over time through Artificial Intelligence deep learning and Internet of Things applications The farming industry and Smart agriculture develop from the stringent limits imposed by a farm s location which in turn has a series of related effects with respect to supply chain management food availability biodiversity farmers decision making and insurance and environmental concerns among others All of the above mentioned aspects will derive substantial benefits from the implementation of a data driven approach under the condition that the systems tools and techniques to be used have been designed to handle the volume and variety of the data to be gathered Contributions to this book have been solicited with the goal of uncovering the possibilities of engaging agriculture with equipped and effective profound learning algorithms Most agricultural research centres are already adopting Internet of Things for the monitoring of a wide range of farm services and there are significant opportunities for agriculture administration through the effective implementation of Machine Learning Deep Learning Big Data and IoT structures Smart farms Professor Claus Grøn Sørensen,2024-04-23 Provides a detailed overview of the recent trends in farm information management systems including their evolution and role in improving farmer decision making Considers the range of data mining techniques used in decision support systems such as artificial neural networks and support vector machines Includes a selection of case studies which explore the use of decision support systems in optimising farm management and productivity New Frontiers in Cloud Computing and Internet of Things Rajkumar Buyya,Lalit Garg,Giancarlo Fortino,Sanjay Misra,2022-09-26 This book provides an account of the latest developments in IoT and cloud computing and their practical applications in various industrial scientific business education and government domains The book covers the advanced research and state of the art review of the latest developments in IoT and cloud computing and how they might be employed post COVID era The book also identifies challenges and their solutions in this era shaping the direction for future research and offering emerging topics to investigate further The book serves as a reference for a broader audience such as researchers application designers solution architects teachers graduate

students enthusiasts practitioners IT managers decision makers and policymakers The book editors are pioneers in the fields of IoT and Cloud computing Provides an account of the latest developments in IoT and cloud computing and how it can aid in a COVID 19 Era in a variety of applications Identifies IoT and cloud computing challenges and their solutions shaping the direction for future research Serves as a reference for researchers application designers solution architects teachers and graduate students **Artificial Intelligence and Smart Agriculture Technology** M. Rubaiyat Hossain

Mondal,2024-10-07 This book explores the application use of machine learning and artificial intelligence in smart agriculture by Identifying and describing functional and non functional technologies It identifies and discusses smart agriculture capabilities and conceptual prototypes as well as demonstrates critical technological solutions Smart Agriculture Amol

Dattatray Dhaygude,Suman Kumar Swarnkar,Priya Chugh,Yogesh Kumar Rathore,2024-12-18 This book Smart Agriculture Harnessing Machine Learning for Crop Management is a comprehensive guide designed to explore the various facets of integrating machine learning into agricultural practices It aims to provide readers with a solid foundation in machine learning concepts while demonstrating their practical applications in real world farming scenarios It also examines the role of remote monitoring and precision agriculture highlighting how technologies such as remote sensing and recurrent neural networks can optimize farming practices This book Emphasizes sustainable agricultural practices and data driven decision making for eco friendly farming Highlights the importance of using environmentally friendly practices and how machine learning can play a pivotal role in achieving sustainability goals Discusses topics such as crop optimization disease detection pest control resource management precision agriculture and sustainability Covers predictive analytics for weather forecasting Internet of Things applications for precision agriculture and the role of sensors in data collection Illustrates optimizing resource allocation irrigation with artificial intelligence and machine learning for soil health assessment Whether you are a researcher a student an agricultural professional or a technology enthusiast this book offers valuable insights into the transformative power of machine learning in agriculture It invites readers to explore the potential of machine learning to transform farming practices improve food security and promote environmental sustainability *Smart Innovation in Agriculture* Elena G. Popkova,Bruno S. Sergi,2022-02-28 This book is concerned with the systemic examination of the prospects for the development of smart agriculture for sustainable development This book substantiates the top priority significance of smart innovation in agriculture for modern economic and ecological systems The book not only examines the theoretical concept of smart agriculture but also gives consideration to the rule of thumb in terms of its implementation in different countries worldwide The book contains both fundamental and applied recommendations on the innovative technological development of smart agriculture in modern economic and ecological systems for sustainable development The book is not limited to a single vector of development of smart agriculture but is representative of all of them making it possible to describe the future prospects in the fullest most reliable and accurate manner and to comprehensively present the

directions for its development The book has developed and applied an advanced and sophisticated methodology the advantage of which consists in the reliance on big data with the use of datasets which allows improving accuracy reliability authenticity and coverage of results

Smart Agriculture an Approach Towards Better Agriculture Management Aqeel-ur- Rehman,2015-02-12 This edited book Smart Agriculture An Approach towards Better Agriculture Management aims to present utilization of advanced technologies towards the better management of Agriculture requirements The book is triggered by ubiquitous applications of sensors and actuators and the real world challenges and complexities to the Wireless Sensors and Actuator Networks WSN application Agriculture is a very vast domain This book is providing coverage of some of the aspects of the agriculture like Introduction to the concept of Smart Agriculture Automatic Irrigation Management Water Management use of advanced technology like GIS towards Agriculture and Agricultural Ontologies to provide semantic understanding for computing devices

Agricultural Internet of Things and Decision Support for Precision Smart Farming Annamaria Castrignano,Gabriele Buttafuoco,Raj Khosla,Abdul Mouazen,Dimitrios Moshou,Olivier Naud,2020-01-09 Agricultural Internet of Things and Decision Support for Smart Farming reveals how a set of key enabling technologies KET related to agronomic management remote and proximal sensing data mining decision making and automation can be efficiently integrated in one system Chapters cover how KETs enable real time monitoring of soil conditions determine real time site specific requirements of crop systems help develop a decision support system DSS aimed at maximizing the efficient use of resources and provide planning for agronomic inputs differentiated in time and space This book is ideal for researchers academics post graduate students and practitioners who want to embrace new agricultural technologies Presents the science behind smart technologies for agricultural management Reveals the power of data science and how to extract meaningful insights from big data on what is most suitable based on individual time and space Proves how advanced technologies used in agriculture practices can become site specific locally adaptive operationally feasible and economically affordable

Precision Agriculture for Sustainability Narendra Khatri,Ajay Kumar Vyas,Celestine Iwendi,Prasenjit Chatterjee,2024-02-13 This new book delves into how modern technologies i e global positioning systems GPS unmanned aerial vehicles drones image processing methods artificial intelligence machine learning and deep learning are being used to make agriculture more farmer friendly and more economically profitable The volume focuses on the use of smart sensors actuators and decision support systems to provide intelligent data about crop health and for monitoring for yield prediction soil quality nutrition requirement prediction etc The authors discuss robotic based innovations in agriculture soft computing methodologies for crop forecasting machine learning techniques to classify and identify plant diseases deep convolutional neural networks for recognizing nutrient deficiencies and more

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

Optimizing Smart and Sustainable Agriculture for Sustainability Biswa Ranjan Acharya, Ankita Bansal, Abha Jain (Professor of software engineering), Rachna Jain (Professor of information technology), Joel Rodrigues, 2025 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 It further 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 metaheuristic 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 Provided by publisher

Smart Farming, Smarter Solutions Manojit Chowdhury, Nand Lal Kushwaha, Gourav Dhar Bhowmick, 2025-10-21 Smart Farming Smarter Solutions Revolutionizing Agriculture with Artificial Intelligence presents a comprehensive exploration of how Artificial Intelligence AI technologies are transforming modern agriculture With contributions from experts across the globe the book covers a wide spectrum of smart farming innovations including AI powered crop monitoring precision irrigation robotics drones big data and supply chain optimization This volume designed for researchers practitioners students and policy makers showcases cutting edge developments that promote sustainable and climate resilient agriculture It is an essential reference for understanding the intersection of artificial intelligence and agriculture in building future ready farming 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

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 Agriculture 5.0 Latief Ahmad, Firasath

Nabi,2021-03-24 Agriculture 5 0 Artificial Intelligence IoT Machine Learning provides an interdisciplinary integrative overview of latest development in the domain of smart farming It shows how the traditional farming practices are being enhanced and modified by automation and introduction of modern scalable technological solutions that cut down on risks enhance sustainability and deliver predictive decisions to the grower in order to make agriculture more productive An elaborative approach has been used to highlight the applicability and adoption of key technologies and techniques such WSN IoT AI and ML in agronomic activities ranging from collection of information analysing and drawing meaningful insights from the information which is more accurate timely and reliable It synthesizes interdisciplinary theory concepts definitions models and findings involved in complex global sustainability problem solving making it an essential guide and reference It includes real world examples and applications making the book accessible to a broader interdisciplinary readership This book clarifies hoe the birth of smart and intelligent agriculture is being nurtured and driven by the deployment of tiny sensors or AI ML enabled UAV s or low powered Internet of Things setups for the sensing monitoring collection processing and storing of the information over the cloud platforms This book is ideal for researchers academics post graduate students and practitioners of agricultural universities who want to embrace new agricultural technologies for Determination of site specific crop requirements future farming strategies related to controlling of chemical sprays yield price assessments with the help of AI ML driven intelligent decision support systems and use of agri robots for sowing and harvesting The book will be covering and exploring the applications and some case studies of each technology that have heavily made impact as grand successes The main aim of the book is to give the readers immense insights into the impact and scope of WSN IoT AI and ML in the growth of intelligent digital farming and Agriculture revolution 5 0 The book also focuses on feasibility of precision farming and the problems faced during adoption of precision farming techniques its potential in India and various policy measures taken all over the world The reader can find a description of different decision support tools like crop simulation models their types and application in PA Features Detailed description of the latest tools and technologies available for the Agriculture 5 0 Elaborative information for different type of hardware platforms and machine learning techniques for use in smart farming Elucidates various types of predictive modeling techniques available for intelligent and accurate agricultural decision making from real time collected information for site specific precision farming Information about different type of regulations and policies made by all over the world for the motivation farmers and innovators to invest and adopt the AI and ML enabled tools and farming systems for sustainable production *Artificial Intelligence and Smart Agriculture* Kusum Pandey,N. L. Kushwaha,Chaitanya B. Pande,K. G. Singh,2024-03-29 As technology continues to saturate modern society agriculture has started to adopt digital computing and data driven innovations This emergence of smart farming has led to various advancements in the field including autonomous equipment and the collection of climate livestock and plant data As connectivity and data management continue to revolutionize the farming industry empirical research is required to

understand these technological developments This book explores the applications of various artificial intelligence techniques by identifying and describing technical functional and non functional future technologies for smart farming and agriculture The book also presents practical application opportunities for the resolution of real world problems including contributions from precision irrigation greenhouse data livestock monitoring automation IoT ecosystems for agriculture cloud computing mobile robots for precision agriculture remote sensing applications and data mining In addition this book provides summary information about different soilless techniques such as hydroponics aeroponics and aquaponics among others This book is ideally designed for farmers agriculturalists product managers farm holders manufacturers equipment suppliers industrialists governmental professionals researchers academicians and students seeking current research on technological applications within agriculture and farming

Climate-Smart Agricultural Technologies Biswajit Pramanick, Shiv Vendra Singh, Sagar Maitra, Silvia Celletti, Akbar Hossain, 2025-07-20 This book addresses the technologies that can be employed to tackle the challenges of global food security Several recent studies have reported the significant impact of changing climate on the agricultural production thus posing a challenge in achieving global food security Thus to mitigate these challenges there is an urgent need to develop approaches that may be helpful for the sustainability of food production These approaches are based on three objectives i sustainably increasing agricultural productivity to support equitable increases in farm incomes food security and development ii adapting and building the resilience of food systems to climate change and iii where possible reducing GHGs emissions from agriculture This book provides updated information for these climate smart agricultural technologies that hold high potential to increase productivity improve resilience and provide efficient resource utilization This book is a valuable resource for undergraduates postgraduates researchers professors and policymakers in the field of agriculture botany and agriculture extension functionaries

Data-Driven Farming Syed Nisar Hussain Bukhari, 2024-06-13 In the dynamic realm of agriculture artificial intelligence AI and machine learning ML emerge as catalysts for unprecedented transformation and growth The emergence of big data Internet of Things IoT sensors and advanced analytics has opened up new possibilities for farmers to collect and analyze data in real time make informed decisions and increase efficiency AI and ML are key enablers of data driven farming allowing farmers to use algorithms and predictive models to gain insights into crop health soil quality weather patterns and more Agriculture is an industry that is deeply rooted in tradition but the landscape is rapidly changing with the emergence of new technologies Data Driven Farming Harnessing the Power of AI and Machine Learning in Agriculture is a comprehensive guide that explores how the latest advances in technology can help farmers make better decisions and maximize yields It offers a detailed overview of the intersection of data AI and ML in agriculture and offers real world examples and case studies that demonstrate how these tools can help farmers improve efficiency reduce waste and increase profitability Exploring how AI and ML can be used to achieve sustainable and profitable farming practices the book provides an introduction to the basics of data driven farming

including an overview of the key concepts tools and technologies It also discusses the challenges and opportunities facing farmers in today s data driven landscape Covering such topics as crop monitoring weather forecasting pest management and soil health management the book focuses on analyzing data predicting outcomes and optimizing decision making in a range of agricultural contexts Artificial Intelligence and Smart Agriculture Applications Utku Kose,V. B. Surya Prasath,M. Rubaiyat Hossain Mondal,Prajay Podder,Subrato Bharati,2022-09 As a result of the advances in Artificial Intelligence AI many aspects of daily life have been transformed by smart digital technology Advanced intelligent algorithms can provide powerful solutions to real world problems Smart applications have become commonplace All areas of life are being changed by smart tools developed to deal with complex issues challenging both the Earth and humanity Artificial Intelligence and Smart Agriculture Applications presents the latest smart agriculture applications developed across the globe It covers a broad array of solutions using data science and AI to attack problems facing agriculture worldwide Highlights of the book include Application of drones and sensors in advanced farming A cloud computing model for implementing smart agriculture Conversational AI for farmer s advisory communications Intelligent fuzzy logic to predict global warming s effect on agriculture Machine learning algorithms for mapping soil macronutrient elements variability A smart IoT framework for soil fertility enhancement AI applications in pest management A model using Python for predicting rainfall The book examines not only present solutions but also potential future outcomes It looks at the role of AI based algorithms and the almost infinite combinations of variables for agricultural applications Researchers public and private sector representatives agriculture scientists and students can use this book to develop sustainable and solutions for smart agriculture This book s findings are especially important as the planet is facing unprecedented environmental challenges from over farming and climate change due to global warming

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Smartlearner Agricultural Sciences Introduction

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