

Applications of Artificial Intelligence for Precision Agriculture



Artificial Intelligence For Biology And Agriculture

Xiang Xie



Artificial Intelligence For Biology And Agriculture:

Artificial Intelligence for Biology and Agriculture S. Panigrahi, K.C. Ting, 2012-12-06 This volume contains a total of thirteen papers covering a variety of AI topics ranging from computer vision and robotics to intelligent modeling neural networks and fuzzy logic There are two general articles on robotics and fuzzy logic The article on robotics focuses on the application of robotics technology in plant production The second article on fuzzy logic provides a general overview of the basics of fuzzy logic and a typical agricultural application of fuzzy logic The article End effectors for tomato harvesting enhances further the robotic research as applied to tomato harvesting The application of computer vision techniques for different biological agricultural applications for example length determination of cheese threads recognition of plankton images and morphological identification of cotton fibers depicts the complexity and heterogeneities of the problems and their solutions The development of a real time orange grading system in the article Video grading of oranges in real time further reports the capability of computer vision technology to meet the demand of high quality food products The integration of neural network technology with computer vision and fuzzy logic for defect detection in eggs and identification of lettuce growth shows the power of hybridization of AI technologies to solve agricultural problems Additional papers also focus on automated modeling of physiological processes during postharvest distribution of agricultural products the applications of neural networks fusion of AI technologies and three dimensional computer vision technologies for different problems ranging from botanical identification and cell migration analysis to food microstructure evaluation

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 **A Biologist's Guide to Artificial Intelligence** Ambreen Hamadani, Nazir A Ganai, Hamadani Henna, J Bashir, 2024-02-29 A Biologist's Guide to Artificial Intelligence Building the Foundations of Artificial Intelligence and Machine Learning for Achieving Advancements in Life Sciences provides an overview of the basics of Artificial Intelligence for life science biologists In 14 chapters sections readers will find an introduction to Artificial Intelligence from a biologist's perspective including coverage of AI in precision medicine disease detection and drug development The book also gives insights into the AI techniques used in biology and the applications of AI in food and in environmental evolutionary agricultural and bioinformatic sciences Final chapters cover ethical issues surrounding AI and the impact of AI on the future This book covers an interdisciplinary area and is therefore is an important subject matter resource and reference for researchers in biology and students pursuing their degrees in all areas of Life Sciences It is also a useful title for the industry sector and computer scientists who would gain a better understanding of the needs and requirements of biological sciences and thus better tune the algorithms Helps biologists succeed in understanding the concepts of Artificial Intelligence and machine learning Equips with new data mining strategies an easy interface into the world of Artificial Intelligence Enables researchers to enhance their own sphere of researching Artificial Intelligence **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 *Artificial Intelligence in Education* Matthew N.O. Sadiku, Sarhan M. Musa, Uwakwe C. Chukwu, 2022-01-27 The quest for building an artificial brain developed in the fields of computer science and psychology Artificial intelligence AI sometimes called machine intelligence refers to intelligence demonstrated by machines while the natural intelligence is the intelligence displayed by humans and animals Typically AI systems demonstrate at least some of the following human behaviors planning learning reasoning problem solving knowledge representation perception speech recognition decision making language translation motion manipulation intelligence and creativity Artificial intelligence is an emerging technology which the educational sector can benefit from In this book we consider the applications of AI in key areas of education Artificial intelligence in education AIED refers to the application of AI technologies in educational settings to facilitate teaching learning or decision making AI will impact the education field in the areas of administration instruction and personalized and individualized learning applications In this

book AI is specifically applied in the following key educational sectors education natural sciences social sciences computer science engineering business and medicine *Artificial Intelligence and Smart Agriculture Applications* Utku Kose,V.B. Surya Prasath,M.Rubaiyat Hossain Mondal,Prajoy Podder,Subrato Bharati,2022-09-07 An essential resource work for understanding how to design and develop smart applications for present and future problems of the field of agriculture Dr Deepak Gupta Maharaja Agrasen Institute of Technology Delhi India 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 humanity and the earth 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 Features 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

Artificial Intelligence Theory, Models, and Applications P Kaliraj,T. Devi,2021-10-21 This book examines the fundamentals and technologies of Artificial Intelligence AI and describes their tools challenges and issues It also explains relevant theory as well as industrial applications in various domains such as healthcare economics education product development agriculture human resource management environmental management and marketing The book is a boon to students software developers teachers members of boards of studies and researchers who need a reference resource on artificial intelligence and its applications and is primarily intended for use in courses offered by higher education institutions that strive to equip their graduates with Industry 4 0 skills FEATURES Gender disparity in the enterprises involved in the development of AI based software development as well as solutions to eradicate such gender bias in the AI world A general framework for AI in environmental management smart farming e waste management and smart energy optimization The potential and application of AI in medical imaging as well as the challenges of AI in precision medicine AI s role in the diagnosis of various diseases such as cancer and diabetes The role of machine learning models in product development and statistically monitoring product quality Machine learning to make robust and effective economic policy decisions Machine

learning and data mining approaches to provide better video indexing mechanisms resulting in better searchable results

ABOUT THE EDITORS Prof Dr P Kaliraj is Vice Chancellor at Bharathiar University Coimbatore India Prof Dr T Devi is Professor and Head of the Department of Computer Applications Bharathiar University Coimbatore India

Artificial Intelligence Techniques in Smart Agriculture Siddharth Singh Chouhan, Akash Saxena, Uday Pratap Singh, Sanjeev Jain, 2024-10-19 This edited volume explores the integration of artificial intelligence to improve crop production It addresses the critical need for intelligent crop management in light of the world's escalating population Encompassing a spectrum of technologies including computer vision image processing soft computing machine learning and deep learning the book explores advancements in decision making systems It integrates data science methodologies Internet of Things wireless communications and a range of sensors and actuators to provide precise timely and cost effective solutions to agricultural challenges ultimately enhancing both the quality and quantity of crop yields The book empowers its audience to direct their efforts towards designing models and prototypes that benefit society and the environment making it an indispensable resource for those eager to shape the future of intelligent agriculture It serves as a comprehensive guide for students scholars and academicians keen on delving into the transformative field of artificial intelligence in agriculture Researchers scientists and field experts will find invaluable insights to guide their exploration and contribution to this domain

Artificial Intelligence Applications in Agriculture and Food Quality Improvement Khan, Mohammad Ayoub, Khan, Rijwan, Praveen, Pushkar, 2022-05-27 Food is a necessary aspect of human life and agriculture is crucial to any country's global economy Because the food business is essential to both a country's economy and global economy artificial intelligence AI based smart solutions are needed to assure product quality and food safety The agricultural sector is constantly under pressure to boost crop output as a result of population growth This necessitates the use of AI applications Artificial Intelligence Applications in Agriculture and Food Quality Improvement discusses the application of AI machine learning and data analytics for the acceleration of the agricultural and food sectors It presents a comprehensive view of how these technologies and tools are used for agricultural process improvement food safety and food quality improvement Covering topics such as diet assessment research crop yield prediction and precision farming this premier reference source is an essential resource for food safety professionals quality assurance professionals agriculture specialists crop managers agricultural engineers food scientists computer scientists AI specialists students libraries government officials researchers and academicians

AI Technologies for Crop Breeding Jen-Tsung Chen, 2025-10-01 AI Technologies for Crop Breeding offers the latest insights into the use of artificial intelligence models to improve plant health and production Presenting applications of AI technologies in plant biology biotechnology and crop breeding it explores practices for the mitigation of biotic and abiotic stressors as well as other plant growth challenges AI based technologies are expected to advance approaches to plant functional genomics and multiple omics resulting in smarter and more efficient crop breeding for next

generation agriculture helping to address the challenges of the increasing human population and the globally changing climate AI tools such as machine learning particularly deep learning have been applied to predict chief players in complicated biological networks increasing the understanding of in depth mechanisms of plant pathogen and plant environment interactions Additionally responses of plants facing stress can be modeled using AI technologies and the resulting data are valuable not only to plant stress physiology but also for stress resilient and disease resistant crop breeding This book introduces AI technologies for studying plant biology focusing on machine learning and deep learning models for integrating multiple omics approaches and revealing the knowledge of plant functional genomes Technological advancements and emerging applications of machine learning and deep learning in genomic selection genome wide association study GWAS phenotyping and constructing phenomics and transcriptomics are also featured in this book AI Technologies for Crop Breeding is an ideal reference for researchers academics and advanced level students and professors in the fields of plant sciences plant stress physiology bioinformatics systems biology and crop breeding Reviews AI based technologies in crop plant functional genomics Presents integration of AI tools with high throughput omics Advances understanding of the potential impact of AI technologies in addressing the UN Sustainable Development Goals

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