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Applications of Artificial Intelligence for Precision Agriculture

Artificial Intelligence For Biology And Agriculture

S. Panigrahi,K.C. Ting

Artificial Intelligence For Biology And Agriculture:

Artificial Intelligence for Biology and Agriculture S. Panigrahi,K.C. Ting,2012-10-17 **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   Artificial Intelligence and Biological Sciences P.V. Mohanan,2025-06-17 Advancements of AI in medical and biological sciences have opened new ways for drug development Novel therapeutic molecules and their target action can be easily predicted and can be modified AI helps in disease detection and diagnosis faster The breakthrough of AI is made especially in the area of personalized precision medicine host pathogen interaction and predictive epidemiology These approaches could help in faster decision making with minimal errors that can improve risk analysis especially disease diagnosis and selecting treatment strategy In agricultural practices an exact combination of fertilizers pesticides herbicides soil management water requirement analysis yield prediction and overall crop management can be modified by implementing AI interventions AI could provide a better improvement in agriculture medical research pharmaceuticals and bio based industries for a sustainable life The key features of this book are AI in medical Sciences biotechnology and drug discovery Application of AI in Digital Pathology cytology and bioinformatics Overview of AI Machine Learning and Deep Learning Impact of Artificial Intelligence in Society Artificial Intelligence in Pharmacovigilance and Ethics in Artificial Intelligence The volume aims to comprehensively cover the application of AI in biological sciences It is a collection of contributions from different authors who have several years of experience in their specific areas The book will be useful for pharma companies CROs product developers students

researchers academicians policymakers and practitioners *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 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 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 anddata 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 **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 **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 **Artificial Intelligence and Biological Sciences** P. V. Mohanan,2025 Advancements of AI in medical and biological sciences have opened new ways for drug development Novel therapeutic molecules and their target action can be easily predicted and can be modified AI helps in disease detection and diagnosis faster The breakthrough of AI is made especially in the area of personalized precision medicine host pathogen interaction and predictive epidemiology These approaches could help in faster decision making with minimal errors that can improve risk analysis especially disease diagnosis and selecting treatment strategy In agricultural practices an exact combination of fertilizers pesticides herbicides soil management water requirement analysis yield prediction and overall crop management can be modified by implementing AI interventions AI could provide a better improvement in agriculture medical research pharmaceuticals and bio based industries for a sustainable life The key features of this book are AI in medical Sciences biotechnology and drug discovery Application of AI in Digital Pathology cytology and bioinformatics Overview of AI Machine Learning and Deep Learning Impact of Artificial Intelligence in Society Artificial Intelligence in Pharmacovigilance and Ethics in Artificial Intelligence The volume aims to comprehensively cover the application of AI in biological sciences It is a collection of contributions from different authors who have several years of experience in their specific areas The book will be useful for pharma companies CROs product developers students researchers academicians policymakers and practitioners **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

Agricultural, Biosystems, and Biological Engineering Education Umezuruike Linus Opara,2024-09-30 Agricultural engineering developed as an engineering discipline underpinned by physics applies scientific principles knowledge and technological innovations in the agricultural and food industries During the last century there was exponential growth in engineering developments which has improved human wellbeing and radically changed how humans interact with each other and our planet Among these Agricultural Mechanization is ranked among the top 10 in a list of 20 Top Engineering Achievements of the last century that have had the greatest impact on the quality of life While many success stories abound the problems of low appeal among students identity crises and limited job opportunities in many climes continue to trouble the discipline s future in many parts of the world Yet agriculture and agricultural engineering remain fundamental to assuring food and nutrition security for a growing global population Agricultural Biosystems and Biological Engineering Education provides the first comprehensive global review and synthesis of different agricultural biosystems and biological engineering education approaches including a detailed exposition of current practices from different regions Key Features Describes novel approaches to curriculum design and reform Outlines current and emerging epistemology and pedagogies in ABBE education Provides a framework to grow agricultural engineering in Africa and other developing regions Highlights the role of ABBE education in the context of the SDGs Presented in 3 parts and containing 42 chapters this book covers the historical evolution of agricultural engineering education and discusses the emergence of biological and biosystems engineering education It will appeal to engineers and other professionals education planners and administrators and policy makers in agriculture and other biological industries Chapters 4 11 19 32 and 41 of this book are freely available as a

downloadable Open Access PDF at http www taylorfrancis com under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license   *Machine Learning in Biological Sciences* Shyamasree Ghosh,Rathi Dasgupta,2022-05-04 This book gives an overview of applications of Machine Learning ML in diverse fields of biological sciences including healthcare animal sciences agriculture and plant sciences Machine learning has major applications in process modelling computer vision signal processing speech recognition and language understanding and processing and life and health sciences It is increasingly used in understanding DNA patterns and in precision medicine This book is divided into eight major sections each containing chapters that describe the application of ML in a certain field The book begins by giving an introduction to ML and the various ML methods It then covers interesting and timely aspects such as applications in genetics cell biology the study of plant pathogen interactions and animal behavior The book discusses computational methods for toxicity prediction of environmental chemicals and drugs which forms a major domain of research in the field of biology It is of relevance to post graduate students and researchers interested in exploring the interdisciplinary areas of use of machine learning and deep learning in life sciences   **Agri-Nanotechnology: Innovations for Sustainable Agriculture and Environmental Restoration** Sukhvinder Singh Purewal,Vijay Gahlaut,Sandeep Kumar Dash,2025-09-26 As the global population rises and environmental challenges intensify the need for sustainable agricultural practices has never been more critical Agri Nanotechnology Innovations for Sustainable Agriculture and Environmental Restoration explores how nanoscale science is revolutionizing farming systems enhancing crop productivity reducing environmental footprints and fostering ecosystem resilience This comprehensive volume bridges the disciplines of nanoscience agriculture and environmental science presenting state of the art research real world applications and future directions From nanopesticides and nanofertilizers to smart delivery systems and soil remediation the book highlights innovative solutions designed to optimize resource use while protecting natural ecosystems Written by leading experts in the field this book serves as an essential reference for researchers agronomists environmental scientists policymakers and students seeking to harness the power of nanotechnology for a greener more productive planet   **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   *IoT and AI in Agriculture* Tofael Ahamed,2024-07-01 This book covers smart agricultural space and its further development with an emphasis on ultra saving labor shortages using AI based technologies A transboundary approach as well as artificial intelligence AI and big data for bioinformatics are required to increase timeliness and supplement the labor shortages ensure the safety of intangible labor migration system to achieve one of the sustainable development goals SDG to secure food security Society 5 0 SDG 1 and 2 With this in mind the book focuses on the solution through smart Internet of Things IoT and AI based agriculture such as automation navigation insect infestation and decreasing agricultural inputs such as water and fertilizer to maintain food security while ensuring environmental sustainability Readers will gain a solid foundation for developing new knowledge through the in depth research and education orientation of the book on how the deployment of outdoor and indoor sensors AI machine learning ML and IoT setups for sensing tracking collection processing and storing information over cloud platforms is nurturing and driving the pace of smart agriculture outdoor and indoors at this current time Furthermore the book introduces the smart system for automation challenges that are important for an unmanned system for considering safety and security points The book is designed for researchers graduates and undergraduate students working in any area of machine learning deep learning in agricultural engineering smart agriculture and environmental science The greatest care has been made to deliver a diverse range of resource areas as well as enormous insights into the significance and scope of IoT AI and ML in the development of intelligent digital farming and smart agriculture providing comprehensive information to the intended readers   *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   Internet of Things and

Analytics for Agriculture, Volume 4 Raghvendra Kumar,Prasant Kumar Pattnaik,Souvik Pal,2025-08-13 This edited book presents recent findings on use of IoT based monitoring systems to analyse functional frameworks for intelligent computational analysis of sustainable agricultural system field monitoring and automation systems agriculture sensor network sensor based precision agriculture expert systems for soil management remote monitoring and predictive analysis systems AI based emergency alert systems crop monitoring AI based predictive analysis smart irrigation and data acquisition security The book also explores a range of applications including intelligent field monitoring intelligent data processing and sensor technologies predictive analysis systems crop monitoring and weather data enabled analysis in IoT agro systems

Biology of Plants: Study and Review ,2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www cybellium com *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 **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

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