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Precision Crop Protection — the Challenge and Use of Heterogeneity



Springer

Precision Crop Protection The Challenge And Use Of Heterogeneity

Donald L. Sparks



Precision Crop Protection The Challenge And Use Of Heterogeneity:

Precision Crop Protection - the Challenge and Use of Heterogeneity Erich-Christian Oerke,Roland Gerhards,Gunter Menz,Richard A. Sikora,2010-08-03 Precision farming is an agricultural management system using global navigation satellite systems geographic information systems remote sensing and data management systems for optimizing the use of nutrients water seed pesticides and energy in heterogeneous field situations This book provides extensive information on the state of the art of research on precision crop protection and recent developments in site specific application technologies for the management of weeds arthropod pests pathogens and nematodes It gives the reader an up to date and in depth review of both basic and applied research developments The chapters discuss I biology and epidemiology of pests II new sensor technologies III applications of multi scale sensor systems IV sensor detection of pests in growing crops V spatial and non spatial data management VI impact of pest heterogeneity and VII precise mechanical and chemical pest control

Vibrational Spectroscopy for Plant Varieties and Cultivars Characterization ,2018-04-30 Vibrational Spectroscopy for Plant Varieties and Cultivars Characterization Volume 80 provides an overview on the application of vibrational spectroscopy to characterize plant cultivars and varieties It covers a variety of aspects including the potential of this technique for taxonomic purposes species and cultivars varieties identification how to discriminate plants according to their ages and geographic regions how to depict soil properties through plant characteristics etc Currently most of these studies are performed through somewhat laborious techniques This book presents reliable alternatives to such techniques while also systematizing information concerning the application of vibration spectroscopy in this context Guides academics through the application of vibrational spectroscopy Presents a valuable source of information for plant producers

Instant Insights: Advances in detecting and forecasting crop pests and diseases Dr Megan Long,Dr Nathaniel Newlands,Dr Michael Schirmann,Dr E. C. Oerke,Dr B. Sailaja,Dr Ch. Padmavathi,Dr D. Krishnaveni,Dr G. Katti,Dr D. Subrahmanyam,Dr M. S. Prasad,Dr S. Gayatri,Dr S. R. Voleti,Dr Irene Vänninen,2023-06-20 This collection features six peer reviewed reviews on advances and in detecting and forecasting crop pests and diseases The first chapter introduces the concept of machine learning to identify and diagnose crop diseases focussing on the deep learning concept The second chapter discusses recent advances in crop disease forecasting models focussing on the application of precision agriculture technologies and Earth observation satellites to identify areas at risk of possible disease outbreaks The third chapter explores the contribution of remote sensing in improving the ways in which plant health is monitored in response to exposure to biotic stresses such as disease The fourth chapter reviews how sensor technologies in combination with informatics and modern application technologies can contribute to more effective pest control The fifth chapter assesses the role of decision support systems for pest monitoring and management through information technology such as spectral indices and image based diagnostics The final chapter addresses key issues and challenges in pest monitoring and forecasting models such as the limitation of some

traps in attracting insects through the use of sex pheromones

Phenomics in Crop Plants: Trends, Options and

Limitations Jitendra Kumar,Aditya Pratap,Shiv Kumar,2015-03-05 Identification of desirable genotypes with traits of interest is discernible for making genetic improvement of crop plants In this direction screening of a large number of germplasm for desirable traits and transfer of identified traits into agronomic backgrounds through recombination breeding is the common breeding approach Although visual screening is easier for qualitative traits its use is not much effective for quantitative traits and also for those which are difficult to score visually Therefore it is imperative to phenotype the germplasm accessions and breeding materials precisely using high throughput phenomics tools for challenging and complex traits under natural controlled and harsh environmental conditions Realizing the importance of phenotyping data towards identification and utilization of a germplasm as donors global scientific community has exerted increased focus on advancing phenomics in crop plants leading to development of a number of techniques and methodologies for screening of agronomic physiological and biochemical traits These technologies have now become much advanced and entered the era of digital science This book provides exhaustive information on various aspects related to phenotyping of crop plants and offers a most comprehensive reference on the developments made in traditional and high throughput phenotyping of agricultural crops

Herbicides Ruben Alvarez-Fernandez,2012-01-20 Weeds severely affect crop quality and yield Therefore successful farming relies on their control by coordinated management approaches Among these chemical herbicides are of key importance Their development and commercialization began in the 1940 s and they allowed for a qualitative increase in crop yield and quality when it was most needed This book blends review chapters with scientific studies creating an overview of some the current trends in the field of herbicides Included are environmental studies on their toxicity and impact on natural populations methods to reduce herbicide inputs and therefore overall non target toxicity and the use of bioherbicides as natural alternatives

Precision agriculture for sustainability Dr John Stafford,2018-11-06 Comprehensive review of key technologies in precision agriculture from proximal and remote sensing to decision support systems and variable rate technologies Surveys key applications of precision agriculture from controlled traffic farming to site specific nutrient and water management Includes discussion of the economics of precision agriculture

Plant Pathology L.P.

Awasthi,Siddhartha Das,Richard F. Lee,Sudepta Pattanayak,2024-12-18 Plant Pathology is a valuable much needed resource in plant pathological science In a world where agriculture sustains life the battle against crop diseases is paramount This book is a comprehensive guide to understanding and managing disease threats Plant Pathology dives into the intricate world of plant diseases Authored by leading experts in the field this book offers a comprehensive overview of plant pathology covering everything from the fundamentals of disease development to advanced management strategies Explore the fascinating mechanisms behind pathogen invasion and host response unraveling the complex interactions that dictate disease outcomes Delve into the diverse array of pathogens from fungi and bacteria to viruses and nematodes that wreak havoc on

crops worldwide This book doesn't stop at diagnosis but equips readers with the knowledge and tools to combat these threats effectively The latest cutting edge techniques in disease management from cultural practices and biological control to the latest developments in genetic resistance and chemical intervention are described Important Features This book encompasses comprehensive coverage of the most essential topics including 1 A comprehensive exploration of crop diseases authored by leading experts 2 Fundamental concepts of disease development and advanced management strategies 3 Insights into pathogen invasion and host response mechanisms spanning fungi bacteria viruses and nematodes 4 The latest techniques in disease management including cultural practices biological control and genetic resistance 5 Practical recommendations and case studies This book equips researchers plant pathology degree students and farmers with the knowledge to safeguard crops enhance yields and ensure food security

Intelligent Systems and Applications Kohei Arai,2021-08-03 This book presents Proceedings of the 2021 Intelligent Systems Conference which is a remarkable collection of chapters covering a wider range of topics in areas of intelligent systems and artificial intelligence and their applications to the real world The conference attracted a total of 496 submissions from many academic pioneering researchers scientists industrial engineers and students from all around the world These submissions underwent a double blind peer review process Of the total submissions 180 submissions have been selected to be included in these proceedings As we witness exponential growth of computational intelligence in several directions and use of intelligent systems in everyday applications this book is an ideal resource for reporting latest innovations and future of AI The chapters include theory and application on all aspects of artificial intelligence from classical to intelligent scope We hope that readers find the book interesting and valuable it provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research

Advances in Agronomy Donald L. Sparks,2022-01-29 *Advances in Agronomy* Volume 172 the latest release in this leading reference on the topic contains a variety of updates and highlights new advances in the field with each chapter written by an international board of authors Includes numerous timely state of the art reviews on the latest advancements in agronomy Features distinguished well recognized authors from around the world Builds upon this venerable and iconic review series Covers the extensive variety and breadth of subject matter in the crop and soil sciences

Grapevine ,2024-05-14 *Advances in Botanical Research From Origin to the Vineyard* Volume 110 highlights new advances in the field with this new volume presenting interesting chapters on topics such as Grapevine origin and diversity Climate change implications on the geography of viticulture Canopy and soil management strategies insights into overcome abiotic stresses in grapevine Grapevine defense mechanisms when challenged by pathogenic fungi and oomycetes Management strategies for reducing pesticide use against diseases caused by fungi and oomycetes in grapevine The Role of Plant Breeding in grapevine production and New biotechnological tools for grapevine improvement Presents the latest release in the *Advances in Botanical Research* series Focuses on viticulture and the science of winemaking Includes

important chapters on grapevine origin and diversity along with management strategies for reducing pesticide use against diseases and more *Achieving sustainable cultivation of ornamental plants* Emeritus Professor Michael Reid, 2020-04-28 Strong focus on environmental physiology abiotic stress and breeding more abiotic stress resistant varieties Reviews range of advanced marker assisted breeding techniques including gene editing Discusses key advances in the value chain to improve resource use for more sustainable production *Decision Support Systems for Weed Management* Guillermo R. Chantre, José L. González-Andújar, 2020-07-31 Weed management Decision Support Systems DSS are increasingly important computer based tools for modern agriculture Nowadays extensive agriculture has become highly dependent on external inputs and both economic costs as well the negative environmental impact of agricultural activities demands knowledge based technology for the optimization and protection of non renewable resources In this context weed management strategies should aim to maximize economic profit by preserving and enhancing agricultural systems Although previous contributions focusing on weed biology and weed management provide valuable insight on many aspects of weed species ecology and practical guides for weed control no attempts have been made to highlight the forthcoming importance of DSS in weed management This book is a first attempt to integrate concepts and practice providing a novel guide to the state of art of DSS and the future prospects which hopefully would be of interest to higher level students academics and professionals in related areas *Drones and Geographical Information Technologies in Agroecology and Organic Farming* Massimo De Marchi, Alberto Diantini, Salvatore Eugenio Pappalardo, 2022-09-29 Although organic farming and agroecology are normally not associated with the use of new technologies it s rapid growth new technologies are being adopted to mitigate environmental impacts of intensive production implemented with external material and energy inputs GPS satellite images GIS drones help conventional farming in precision supply of water pesticides fertilizers Prescription maps define the right place and moment for interventions of machinery fleets Yield goal remains the key objective integrating a more efficient use of resources toward an economic environmental sustainability Technological smart farming allows extractive agriculture entering the sustainability era Societies that practice agroecology through the development of human environmental co evolutionary systems represent a solid model of sustainability These systems are characterized by high quality agroecosystems and landscapes social inclusion and viable economies This book explores the challenges posed by the new geographic information technologies in agroecology and organic farming It discusses the differences among technology laden conventional farming systems and the role of technologies in strengthening the potential of agroecology The first part reviews the new tools offered by geographic information technologies to farmers and people The second part provides case studies of most promising application of technologies in organic farming and agroecology the diffusion of hyperspectral imagery the role of positioning systems the integration of drones with satellite imagery The third part of the book explores the role of agroecology using a multiscale approach from the farm to the landscape level This section explores the potential

of Geodesign in promoting alliances between farmers and people and strengthening food networks whether through proximity urban farming or asserting land rights in remote areas in the spirit of agroecological transition The Open Access version of this book available at www.taylorfrancis.com has been made available under a Creative Commons 4.0 license

Instant Insights: Advances in fertilisers and fertiliser technology Dr Paul Miller, Dr Dan S. Long, Prof Bryan G. Hopkins, Dr Asher Bar-Tal, Dr Uri Yermiyahu, Dr Alon Ben-Gal, 2024-01-23 Considers the role of future fertiliser development in achieving a more sustainable agriculture Explores the range of techniques required to optimise fertiliser application in modern agriculture such as rate placement and timing Includes case studies which demonstrate the successful application of fertigation techniques in conventional and soilless cultivation systems Nanobiotechnology Applications in Plant Protection Kamel A. Abd-El Salam, Ram Prasad, 2018-08-14 Nanotechnology can target specific agricultural problems related to plant pathology and provide new techniques for crop disease control Plant breeders and phytopathologists are needed who can apply nanogenomics and develop nanodiagnostic technologies to accurately advance the improvement process and take advantage of the potential of genomics This book serves as a thorough guide for researchers working with nanotechnology to address plant protection problems Novel nanobiotechnology methods describe new plant gene transfer tools that improve crop resistance against plant diseases and increase food security Also quantum dots QDs have emerged as essential tools for fast and accurate detection of particular biological markers Biosensors QDs nanostructured platforms nanoimaging and nanopore DNA sequencing tools have the potential to raise sensitivity specificity and speed in pathogen detection thereby facilitating high throughput analysis and providing high quality monitoring and crop protection Also this book deals with the application of nanotechnology for quicker more cost effective and precise diagnostic procedures of plant diseases and mycotoxins Applications of nanotechnology in plant pests and disease control antimicrobial mechanisms pesticides remediation and nanotoxicity on plant ecosystem and soil microbial communities are discussed in detail Moreover the application of specific nanomaterials including silver copper carbon or polymer based nanomaterials and nanoemulsions are also discussed Crops treated with safe nanofertilizers and nanopesticides will gain added value because they are free of chemical residues decay and putative pathogens for human health sustaining the global demand for high product quality

Handbook of Integrated Weed Management for Major Field Crops Rakesh Kumar, Pardeep Kaur, Robin, 2024-10-21 Handbook of Integrated Weed Management for Major Field Crops provides a comprehensive guide to the identification ecology and management of weeds in key agricultural crops such as rice wheat maize sugarcane oilseeds pulses and more The book highlights an integrated approach to weed control combining cultural mechanical biological and chemical methods Each chapter focuses on specific crops detailing tailored strategies for effective weed management in diverse agroecological zones The text also explores weed biology crop competition and the role of environmental factors in weed proliferation With an emphasis on sustainability and economic efficiency this handbook is a crucial resource for students researchers farm

managers and agricultural professionals seeking practical and ecological weed management solutions

Key Features

- Comprehensive coverage of weed identification biology and ecology
- Focus on integrated weed management strategies across major field crops
- Detailed weed control approaches for specific crops
- Emphasis on sustainable and economically efficient practices

Essential resource for students researchers and professionals in agriculture

Automation: The Future of Weed Control in Cropping Systems Stephen L. Young, Francis J. Pierce, 2013-11-21 Technology is rapidly advancing in all areas of society including agriculture In both conventional and organic systems there is a need to apply technology beyond our current approach to improve the efficiency and economics of management Weeds in particular have been part of cropping systems for centuries often being ranked as the number one production cost Now public demand for a sustainably grown product has created economic incentives for producers to improve their practices yet the development of advanced weed control tools beyond biotech has lagged behind An opportunity has been created for engineers and weed scientists to pool their knowledge and work together to fill the gap in managing weeds in crops Never before has there been such pressure to produce more with less in order to sustain our economies and environments This book is the first to provide a radically new approach to weed management that could change cropping systems both now and in the future

Plant Parasitic Nematodes in Subtropical and Tropical Agriculture, 3rd Edition Richard A Sikora, Danny Coyne, Johannes Hallmann, Patricia Timper, 2018-08-10 Covering all aspects of practical plant nematology in subtropical and tropical agriculture the third edition of this definitive global reference work is fully revised and in full colour throughout It covers the presence distribution symptomology and management of all economically important plant parasitic nematodes damaging the world's major food and cash crops This includes rice cereals solanum and sweet potatoes and other root and tuber crops food legumes vegetables peanut citrus fruit tree crops coconut and other palms coffee cocoa tea bananas sugarcane tobacco pineapple cotton other tropical fibres spices and medicinal plants New content for this edition includes A chapter on nematode soil biodiversity and soil health Reflections on the future impact of nematodes and nematology on food security The importance of climate change emerging threats and new management technologies for large and small subsistence growers Significant revisions to the IPM chapter and chapters on vegetables citrus legumes tuber crops cotton peanut and banana where major advances in nematode management have occurred This book is highly illustrated with up to date practical guidance on methods of extraction processing and diagnosing of different plant and soil nematodes and on integrated pest management It remains an invaluable resource for those studying and working in the area of crop protection

Satellite Farming Latief Ahmad, Syed Sheraz Mahdi, 2019-02-15 This book focuses on the recent advances in precision agriculture and satellite farming detailing applications for sensing data handling modeling and control In addition the book reviews its history establishing the background on the various processes and applications describes the current status and offers insight into the future technology of satellite farming in India Introducing processes and applications based on a global scale the

book reveals how precision agriculture can be used in large scale agriculture community agriculture and diversified farming It includes site specific information from a variety of information sources for planning planting growing and harvesting agricultural crops It also presents a new concept based on the control system theory that can be used to formulate systematic methods for more effective precision crop production Precision agriculture when properly integrated into the crop production process can greatly improve overall production and sustainability

Information and Communication Technologies for Agriculture—Theme III: Decision Dionysis D. Bochtis, Claus Grøn Sørensen, Spyros Fountas, Vasileios Moysiadis, Panos M. Pardalos, 2022-04-27 This volume is the third III of four under the main themes of Digitizing Agriculture and Information and Communication Technologies ICT The four volumes cover rapidly developing processes including Sensors I Data II Decision III and Actions IV Volumes are related to digital transformation within agricultural production and provision systems and in the context of Smart Farming Technology and Knowledge based Agriculture Content spans broadly from data mining and visualization to big data analytics and decision making alongside with the sustainability aspects stemming from the digital transformation of farming The four volumes comprise the outcome of the 12th EFITA Congress also incorporating chapters that originated from select presentations of the Congress The focus of this book III is on the transformation of collected information into valuable decisions and aims to shed light on how best to use digital technologies to reduce cost inputs and time toward becoming more efficient and transparent Fourteen chapters are grouped into 3 Sections The first section of is dedicated to decisions in the value chain of agricultural products The next section titled Primary Production elaborates on decision making for the improvement of processes taking place with the farm under the implementation of ICT The last section is devoted to the development of innovative decision applications that also consider the protection of the environment recognizing its importance in the preservation and considerate use of resources as well as the mitigation of adverse impacts that are related to agricultural production Planning and modeling the assessment of agricultural practices can provide farmers with valuable information prior to the execution of any task This book provides a valuable reference for them as well as for those directly involved with decision making in planning and assessment of agricultural production Specific advances covered in the volume Modelling and Simulation of ICT based agricultural systems Farm Management Information Systems FMIS Planning for unmanned aerial systems Agri robotics awareness and planning Smart livestock farming Sustainable strategic planning in agri production Food business information systems

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