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Earth Observation for Water Resource Management in Africa -

Benjamin Koetz 2018-10-02

This book is a printed edition of the Special Issue "Earth Observation for Water Resource Management in Africa" that was published in Remote Sensing

Agricultural Productivity Growth in the United States :. - Sun Ling Wang 2015

Nanopesticides - Leonardo F. Fraceto 2020-07-06

This book explores the development of nanopesticides and tests of their biological activity against target organisms. It also covers the effects of nanopesticides in the aquatic and terrestrial environments, along with related subjects including fate, behaviour, mechanisms of action and toxicity. Moreover, the book discusses the potential risks of nanopesticides for non-target organisms, as well as regulatory issues and future perspectives.

Insect Pests of Potato - Andrei Alyokhin 2022-03-25

This fully revised and updated second edition of *Insect Pests of Potato* now includes an opening section with a basic overview of agronomic and economic issues as they relate to potato production. It also features a new section that reviews potato production, as well as problems caused by insect pests and solutions to these problems, in all major potato-growing regions of the world. Further, a new section discusses theoretical foundations of potato pest management and includes chapters on ecological theory, evolutionary theory, and a case study on their applications to elucidate differences between Eastern and Western populations of Colorado potato beetle in North America. There is also a new chapter on the foundations of integrated pest management and their applications in controlling insect pests. The sections on the biology of main pests and on control methods now feature the latest information, including emphasis on recent advances in molecular biology and genomics. Information on the use of dsRNA technology for pest control is also included, as are new chapters on potato ladybirds and on hemipterous pests other than aphids and psyllids. This second edition provides improved integration and logical connections among chapters and expanded geographic scope of coverage making it the ideal reference on the topic. Fully revised and updated with new sections on potato-growing regions and theoretical foundations of potato pest management using ecological theory, evolutionary theory and relevant case study insights. Contains improved integration and logical connections among chapters, expanded geographic scope of coverage, and scientific advances. Emphasizes recent advances in molecular biology and genomics, including the use of dsRNA technology for pest control

Storage of Biomass Feedstocks: Risks and Opportunities - Vicki S. Thompson 2021-04-30

Agricultural Statistics - 1991

Building Resilient Cities in China: The Nexus between Planning and Science - Xueming Chen 2015-05-20

This book discusses a range of planning and management issues related to building urban resiliency. It covers such topics as urban, environmental, and transportation planning, historical preservation, emergency relief and management, geographic information systems (GIS) and other technological applications. The book includes case studies of several cities and districts in China, including Shanghai, and a number of cities in the United States of America. Urban resiliency in the face of uncertainty is a priority for planning and governance in communities worldwide. In China, which has suffered many of the world's most devastating floods, earthquakes, and typhoons, preparing for the threat of disaster has long been an important planning objective. Recent calamities, such as the 2008 Winter Storms, the 2008 Wenchuan

Earthquake, and the 2012 Beijing Floods have only made planning for resiliency more urgent. As planners work to prepare for such events, interdisciplinary collaboration becomes increasingly important. Planners need the tools and insights offered by other fields, including both the natural and social sciences. At the same time, these interdisciplinary relationships help shape the identity of urban-rural planning in its new role as one of China's primary academic disciplines. Thus, the nexus between planning and science is critically important in building resilient cities in China, and the Chinese planning experience can serve as an example to and benefit countries around the world.

Plant Growth-Promoting Microorganisms for Sustainable Agricultural Production - Everlon Cid Rigobelo 2022-04-18

Biography of Edgar E. Hartwig, soybean breeder for the U.S. South (1913-2018) - William Shurtleff; Akiko Aoyagi 2018-12-23

UAS-Remote Sensing Methods for Mapping, Monitoring and Modeling Crops - Francisco Javier Mesas Carrascosa 2021-04-22

The advances in unmanned aerial vehicle (UAV) platforms and onboard sensors in the past few years have greatly increased our ability to monitor and map crops. The ability to register images at ultrahigh spatial resolution at any moment has made remote sensing techniques increasingly useful in crop management. These technologies have revolutionized the way in which remote sensing is applied in precision agriculture, allowing for decision-making in a matter of days instead of weeks. However, it is still necessary to continue research to improve and maximize the potential of UAV remote sensing in agriculture. This Special Issue of Remote Sensing includes different applications of UAV remote sensing for crop management, covering RGB, multispectral, hyperspectral and light detection and ranging (LiDAR) sensor applications aboard UAVs. The papers reveal innovative techniques involving image analysis and cloud points. However, it should be emphasized that this Special Issue is a small sample of UAV applications in agriculture and that there is much more to investigate.

Evidence-Based Programming for Older Adults - Marcia G. Ory 2015-06-17

There is increased world-wide concern about the impact of multiple chronic conditions, especially among the rapidly aging population. Simultaneously, over the past decade there has been an emergence of state-wide and national initiatives to reduce the burden of chronic conditions that draw upon the translation of evidence-based programs (EPB) into community practice. Yet, little has been written about the national and international implementation, dissemination, and sustainability of such programs. This Research Topic features articles about EBPs for older adults, including a range of articles that focus on the infrastructure needed to widely disseminate EBP as well as individual participant impacts on physical, mental, and social aspects of health and well-being. Using a pragmatic research perspective, this Research Topic will advance knowledge that aims to enhance practice, inform policy and build systems of support and delivery in regard to the reach, effectiveness, adoption, implementation, and maintenance of evidence-based interventions for older adults. The focus is on knowledge transfer rather than knowledge generation but with a dual emphasis on the dissemination and sustainability of EBP that have been tested and shown effective as well as the adaptation of practice-based interventions into evidence-based programs. This Research Topic draws upon grand-scale efforts to deliver these programs, and include both U.S. as well as international examples. Commentaries discuss processes in the development and measurement of EBP and reflect perspectives from program developers and major national and regional funders of EBP as well as professionals and practitioners in the field. The full-length articles focus on four major programmatic areas: (1) chronic disease self-

management programs; (2) fall prevention programs; (3) general wellness and physical activity programs; and (4) mental health programs. Additionally, articles are included to discuss cross-cutting issues related to building partnerships and the research infrastructure for the implementation, evaluation, and dissemination of evidence-based programming. The intent of this Research Topic is to enhance practice, inform policy, and build systems of support and delivery for EBP. It is written for a diverse audience and contains practical implications and recommendations for introducing, delivering, and sustaining EBP in a multitude of settings.

Extreme Hydrology and Climate Variability - Assefa M. Melesse 2019-07-03

Extreme Hydrology and Climate Variability: Monitoring, Modelling, Adaptation and Mitigation is a compilation of contributions by experts from around the world who discuss extreme hydrology topics, from monitoring, to modeling and management. With extreme climatic and hydrologic events becoming so frequent, this book is a critical source, adding knowledge to the science of extreme hydrology. Topics covered include hydrometeorology monitoring, climate variability and trends, hydrological variability and trends, landscape dynamics, droughts, flood processes, and extreme events management, adaptation and mitigation. Each of the book's chapters provide background and theoretical foundations followed by approaches used and results of the applied studies. This book will be highly used by water resource managers and extreme event researchers who are interested in understanding the processes and teleconnectivity of large-scale climate dynamics and extreme events, predictability, simulation and intervention measures. Presents datasets used and methods followed to support the findings included, allowing readers to follow these steps in their own research Provides variable methodological approaches, thus giving the reader multiple hydrological modeling information to use in their work Includes a variety of case studies, thus making the context of the book relatable to everyday working situations for those studying extreme hydrology Discusses extreme event management, including adaption and mitigation

Hidden Markov Models and Applications - Nizar Bouguila

This book focuses on recent advances, approaches, theories, and applications related Hidden Markov Models (HMMs). In particular, the book presents recent inference frameworks and applications that consider HMMs. The authors discuss challenging problems that exist when considering HMMs for a specific task or application, such as estimation or selection, etc. The goal of this volume is to summarize the recent advances and modern approaches related to these problems. The book also reports advances on classic but difficult problems in HMMs such as inference and feature selection and describes real-world applications of HMMs from several domains. The book pertains to researchers and graduate students, who will gain a clear view of recent developments related to HMMs and their applications. Includes new advances on finite and infinite Hidden Markov Models (HMMs) and their applications from different disciplines; Tackles recent challenges related to the deployment of HMMs in real-life applications (e.g., big data, multimodal data, etc.); Presents new applications of HMMs by considering advancements with respect to inference techniques and recent technological advancements.

Ensuring Global Food Safety - Aleksandra Martinovic 2022-02-10

Ensuring Global Food Safety: Exploring Global Harmonization, Second Edition, examines the policies and practices of food law which remain top contributors to food waste. This fully revised and updated edition offers a rational and multifaceted approach to the science-based issue of "what is safe for consumption?" and how creating a globally acceptable framework of microbiological, toxicological and nutritional standards can contribute to the alleviation of hunger and food insecurity in the world. Currently, many laws and regulations are so stringent that healthy food is destroyed based on scientifically incorrect information upon which laws and regulations are based. This book illuminates these issues, offering guidelines for moving toward a scientifically sound approach to food safety regulation that can also improve food security without putting consumers at risk. Presents the progress and current status of regulatory harmonization for food standards Provides a science-based foundation for global regulatory consensus Approaches challenges from a risk-benefit approach, also including safety assurance Includes global perspectives from governmental, academic and industry experts
Ensuring Animal Health and Other Services for Efficient and Inclusive Livestock Value Chains in LMICs - Isabelle Baltenweck 2022-01-28

Wine Tasting - Ronald S. Jackson 2016-12-22

From OIV-award-winning author, Ronald S. Jackson, *Wine Tasting: A Professional Handbook, Third Edition*, is an essential guide for any professional or serious connoisseur seeking to understand both the theory and practice of wine tasting. From techniques for assessing wine properties and quality, including physiological, psychological, and physicochemical sensory evaluation, to the latest information on the types of wine, the author guides the reader to a clear and applicable understanding of the wine tasting process. With its inclusion of illustrative data and testing technique descriptions, the book is ideal for both those who train tasters, those involved in designing wine tastings, and the connoisseur seeking to maximize their perception and appreciation of wine. Contains revised and updated coverage, notably on the physiology and neurology of taste and odor perception Includes expanded coverage of the statistical aspect of wine tasting (specific examples to show the process), qualitative wine tasting, wine language, the origins of wine quality, and food and wine combination Provides a flow chart of wine tasting steps and production procedures Presents practical details on wine storage and the problems that can occur both during and following bottle opening

Composition of Foods - Barbara Ann Anderson 1990

Statistical Procedures for Agricultural Research - Kwanchai A. Gomez 1984-02-17

Here in one easy-to-understand volume are the statistical procedures and techniques the agricultural researcher needs to know in order to design, implement, analyze, and interpret the results of most experiments with crops. Designed specifically for the non-statistician, this valuable guide focuses on the practical problems of the field researcher. Throughout, it emphasizes the use of statistics as a tool of research—one that will help pinpoint research problems and select remedial measures. Whenever possible, mathematical formulations and statistical jargon are avoided. Originally published by the International Rice Research Institute, this widely respected guide has been totally updated and much expanded in this Second Edition. It now features new chapters on the analysis of multi-observation data and experiments conducted over time and space. Also included is a chapter on experiments in farmers' fields, a subject of major concern in developing countries where agricultural research is commonly conducted outside experiment stations. *Statistical Procedures for Agricultural Research, Second Edition* will prove equally useful to students and professional researchers in all agricultural and biological disciplines. A wealth of examples of actual experiments help readers to choose the statistical method best suited for their needs, and enable even the most complicated procedures to be easily understood and directly applied. An International Rice Research Institute Book
Structural Bioinformatics and Biophysical Approaches for Understanding the Plant Responses to Biotic and Abiotic Stress - Raul Antonio Sperotto 2022-10-21

Animal Welfare Assessment, Volume II - Edward Narayan 2021-09-30

Advances in Agronomy - 2018-04-18

Advances in Agronomy, Volume 149, the latest release in the series, continues to be recognized as a leading reference and first-rate source for the latest research in agronomy. Each volume contains an eclectic group of reviews by leading scientists throughout the world. As always, the subjects covered are rich, varied and exemplary of the abundant subject matter addressed by this long-running serial. 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

Study and Master Agricultural Sciences Grade 12 CAPS Teacher's File - Altus Strydom 2014-06-26

Study & Master Agricultural Sciences Grade 12 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in Agricultural Sciences.

Transactions of the ASAE. - American Society of Agricultural Engineers 1986

Cognitive Communication and Cooperative HetNet Coexistence - Maria-Gabriella Di Benedetto 2014-01-16

This book, written by experts from universities and major industrial research laboratories, is devoted to the very hot topic of cognitive radio

and networking for cooperative coexistence of heterogeneous wireless networks. Selected highly relevant advanced research is presented on spectrum sensing and progress toward the realization of accurate radio environment mapping, biomimetic learning for self-organizing networks, security threats (with a special focus on primary user emulation attack), and cognition as a tool for green next-generation networks. The research activities covered include work undertaken within the framework of the European COST Action IC0902, which is geared towards the definition of a European platform for cognitive radio and networks. Communications engineers, R&D engineers, researchers, and students will all benefit from this complete reference on recent advances in wireless communications and the design and implementation of cognitive radio systems and networks.

Climate Change and Agricultural System Response - Dingde Xu
2022-10-07

Optimizing the Delivery of Multiple Ecosystem Goods and Services in Agricultural Systems - Maria A. Tsiafouli 2017-10-18

Agricultural land is subjected to a variety of societal pressures, as demands for food, animal feed, and biomass production increase, with an added requirement to simultaneously maintain natural areas and mitigate climatic and environmental impacts. The biotic elements of agricultural systems interact with the abiotic environment to generate a number of ecosystem functions that offer services benefiting humans across many scales of time and space. The intensification of agriculture generally reduces biodiversity including that within soil, and impacts negatively upon a number of regulating and supporting ecosystem services. There is a global need toward achieving sustainable agricultural systems, as also highlighted in the United Nations Sustainable Development Goals. There is hence a need for management regimes that enhance both agricultural production and the associated provision of multiple ecosystem services. The articles of this Research Topic enhance our knowledge of how management practices applied to agricultural systems affect the delivery of multiple ecosystem services and how trade-offs between provisioning, regulating, and supporting services can be handled both above- and below-ground. They also show the diversity of topics that need to be considered within the framework of ecosystem services delivered by agricultural systems, from knowledge on basic concepts and newly-proposed frameworks, to a focus on specific ecosystem types such as grasslands and high nature-value farmlands, pollinator habitats, and soil habitats. This diversity of topics indicates the need for broader-scope research, integrated with targeted scientific research to promote sustainable agricultural practices and to ensure food security.

Artificial Intelligence Applications in Specialty Crops - Yiannis Ampatzidis 2022-03-02

Managing Deep-sea Ecosystems at Ocean Basin Scale, Volume 1 - J. Murray Roberts 2022-04-01

Science, Technology and Innovation Policies for Inclusive Growth in Africa - Reuben A. Alabi 2018

The volume analyses how to make Science, Technology and Innovation (STI) Policies relevant for inclusive growth strategies in Africa. The base for a transformative STI policy is to link the STI policies to Africa's economic transformation policies. In a first part the general issues of introducing effective STI policies are presented. In a second part country case studies highlight the new approach. Cases such as Sudan and Nigeria are analysed, as these two countries have a long history of STI development; because of different history, size and structure they need to move in different directions towards a coherent STI policy for inclusive growth.

Sustainable Intensification - Jules Pretty 2011

First Published in 2011. Routledge is an imprint of Taylor & Francis, an informa company.

Sorghum and Pearl Millet as Climate Resilient Crops for Food and Nutrition Security - Mahalingam Govindaraj 2022-10-03

Systems Biology of Cell Signaling - Zhike Zi 2022-02-17

Topic Editor Prof. Xing is in collaboration with ATCC

(<https://www.atcc.org/>) on testing some of their cell lines in research. All other Topic Editors declare no competing interests with regards to the Research Topic subject.

Global Degradation of Soil and Water Resources - 2022-01-29

This book focuses on soil and water conservation at global scale. It is a serious environmental problem that will threaten the socio-economic well-being of the majority of global population in future. The book examines the current situation of land degradation in multiple regions of the world and offers alternative approaches to solve the problems through sharing advanced technologies and lessons learned. It provides comprehensive assessment on characteristics, level and effect of degradation in different regions. It's a highly informative reference both for researchers and graduate students.

Atmosphere - Cryosphere Interaction in the Arctic, at High Latitudes and Mountains with Focus on Transport, Deposition and Effects of Dust, Black Carbon, and other Aerosols - Pavla Dagsson-Waldhauserova
2020-02-11

Standards and Labeling Policy Book - United States. Food Safety and Inspection Service. Standards and Labeling Division 1991

Sustainable Micro Irrigation Management for Trees and Vines - Megh R. Goyal 2014-08-19

This valuable book, the third volume in the Research Advances in Sustainable Micro Irrigation series, focuses on sustainable micro irrigation management for trees and vines. It covers the principles as well as recent advances and applications of micro irrigation techniques. Specialists throughout the world share their expertise on: • Automation of micro irrigation systems • Service and maintenance of micro irrigation systems • Evaluation of micro irrigation systems • Scheduling of irrigation • Using municipal wastewater for micro irrigation • Micro-jet irrigation and other systems • The effect of potassium, acid lime, and other elements

Frontiers in Environmental Science - Editor's Picks 2021 - Martin Siebert 2021-11-24

Advances in Food and Non-Food Biomass Production, Processing and Use in Sub-Saharan Africa - Daniel Callo-Concha 2020-05-20

The bioeconomy concept aims to add sustainability to the production, transformation, and trade of biological goods. Though implemented around the world, the development of national bioeconomies is uneven, especially in the global South, where major challenges exist in Sub-Saharan Africa. In this context, the international BiomassWeb project aimed to underpin the bioeconomy concept by applying the value web approach, which seeks to uncover complex interlinked value webs instead of linear value chains. The project also aimed to develop intervention options to strengthen and optimize the synergies and trade-offs among different value chains. The Special Issue "Advances in Food and Non-Food Biomass Production, Processing and Use in Sub-Saharan Africa: Toward a Basis for a Regional Bioeconomy" compiles 23 articles produced in this framework. The articles are grouped in four sections: the value web approach; the production side; processing, transformation and trade; and global views.

Herbicide Resistance in Weeds: Early Detection, Mechanisms, Dispersal, New Insights and Management Issues - Ilias Travlos
2020-10-28

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Tropentag 2015 - Eric Tielkes 2015-09-01

Large quantities of water are appropriated to produce the feed annually consumed in global livestock production. Rising concerns about increasing competition for water resources and projected increase in demand for livestock products make it imperative to look for strategies to sustainably increase livestock production, with water being one key natural resource to consider. Using a combination of different datasets, a mechanistic livestock model, and a dynamic vegetation model, we estimate the annual consumptive water use (CWU) in the global livestock sector associated with crops and fodder cultivated on cropland and grazed biomass from pastures.