

EMERGING TECHNOLOGIES TO BENEFIT FARMERS IN SUB-SAHARAN AFRICA AND SOUTH ASIA



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Emerging Technologies To Benefit Farmers In Sub Saharan Africa And South Asia

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Emerging Technologies To Benefit Farmers In Sub Saharan Africa And South Asia:

Emerging Technologies to Benefit Farmers in Sub-Saharan Africa and South Asia National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on a Study of Technologies to Benefit Farmers in Africa and South Asia, 2009-01-21 Increased agricultural productivity is a major stepping stone on the path out of poverty in sub Saharan Africa and South Asia but farmers there face tremendous challenges improving production Poor soil inefficient water use and a lack of access to plant breeding resources nutritious animal feed high quality seed and fuel and electricity combined with some of the most extreme environmental conditions on Earth have made yields in crop and animal production far lower in these regions than world averages Emerging Technologies to Benefit Farmers in Sub Saharan Africa and South Asia identifies sixty emerging technologies with the potential to significantly improve agricultural productivity in sub Saharan Africa and South Asia Eighteen technologies are recommended for immediate development or further exploration Scientists from all backgrounds have an opportunity to become involved in bringing these and other technologies to fruition The opportunities suggested in this book offer new approaches that can synergize with each other and with many other activities to transform agriculture in sub Saharan Africa and South Asia

Sustainability, Emerging Technologies, and Pan-Africanism Thierno Thiam, Gilbert Rochon, 2019-08-31 This book examines the historical antecedents of Pan Africanism as a driving force of African Unity carefully studying its major contributors current institutional status and potential future growth It analyzes the facilitative role of emerging technologies such as high performance computing telecommunications and satellite remote sensing in enabling African sustainable development Finally the authors discuss possible ways that the vision of Pan Africanism can be used today in Africa s efforts towards unity and sustainable development

Innovations as Key to the Green Revolution in Africa Andre Bationo, Boaz Waswa, Jeremiah M. Okeyo, Fredah Maina, Job Maguta Kihara, 2011-08-30 Africa can achieve self sufficiency in food production through adoption of innovations in the agriculture sector Numerous soil fertility and crop production technologies have been generated through research however wide adoption has been low African farmers need better technologies more sustainable practices and fertilizers to improve and sustain their crop productivity and to prevent further degradation of agricultural lands The agricultural sector also needs to be supported by functional institutions and policies that will be able to respond to emerging challenges of globalization and climate change

Artificial Intelligence and Applications Hamid R. Arabnia, Leonidas Deligiannidis, Soheyla Amirian, Farzan Shenavarmasouleh, Farid Ghareh Mohammadi, David de la Fuente, 2025-05-02 This book constitutes the proceedings of the 26th International Conference on Artificial Intelligence and Applications ICAI 2024 held as part of the 2024 World Congress in Computer Science Computer Engineering and Applied Computing in Las Vegas USA during July 22 to July 25 2024 The 38 full papers included in this book were carefully reviewed and selected from 376 submissions They have been organized in topical sections as follows Deep convolutional neural networks ANNs and

applications machine learning and novel applications large language models and applications data science recognition and authentication methods and applications artificial intelligence and applications XXIV Technical Session on Applications of Advanced AI Techniques to information management for solving company related problems *Critical Role of Animal Science Research in Food Security and Sustainability* National Research Council, Division on Earth and Life Sciences, Board on Agriculture and Natural Resources, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on Considerations for the Future of Animal Science Research, 2015-03-31 By 2050 the world's population is projected to grow by one third reaching between 9 and 10 billion With globalization and expected growth in global affluence a substantial increase in per capita meat dairy and fish consumption is also anticipated The demand for calories from animal products will nearly double highlighting the critical importance of the world's animal agriculture system Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security *Critical Role of Animal Science Research in Food Security and Sustainability* identifies areas of research and development technology and resource needs for research in the field of animal agriculture both nationally and internationally This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems and identifies factors that may impact the ability of the United States to meet demand for animal products including the need for trained human capital product safety and quality and effective communication and adoption of new knowledge information and technologies The agricultural sector worldwide faces numerous daunting challenges that will require innovations new technologies and new ways of approaching agriculture if the food feed and fiber needs of the global population are to be met The recommendations of *Critical Role of Animal Science Research in Food Security and Sustainability* will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century *Climate Change and Food Security in South Asia* Rattan Lal, Mannava VK Sivakumar, S.M.A. Faiz, A.H.M. Mustafizur Rahman, Khandakar R. Islam, 2010-10-17 This book addresses an important topic of food security in South Asia with specific reference to climate change Of the 1 billion food insecure people in the world more than 30% are in South Asia The problem of food insecurity may be exacerbated by the projected climate change especially because of the water scarcity caused by rapid melting of the glaciers in the Himalayas and increase in variability in monsoonal rains and frequency of extreme events Furthermore large populations of Bangladesh and other coastal regions may be displaced by sea level rise Thus this volume addresses recommended land use and soil water crop vegetation management practices which would enable land managers to adapt to climate disruption by enhancing soil ecosystem social resilience In addition to biophysical factors this book also

addresses the issues related to human dimensions including social ethnical and political considerations *Achieving sustainable cultivation of maize Volume 2* Dr Dave Watson, 2017-07-31 Summarises current good agricultural practice in maize cultivation from seed selection to nutrient management conservation agriculture rotations and intercropping Reviews advances in understanding and managing diseases and pests such as viruses nematodes and weeds Discusses ways maize cultivation can be made more climate smart **Soil Microbiology and Sustainable Crop Production** Geoffrey R.

Dixon, Emma L. Tilston, 2010-09-08 Soils into which crop plants root and from which they obtain essential minerals and water contain huge arrays of microbes Many have highly beneficial effects on crop growth and productivity others are pathogens causing diseases and losses to yield and quality a few microbes offer protection from these pathogenic forms and others have little or no effect These intimate and often complex inter relationships are being explored with increasing success providing exciting opportunities for increasing crop yields and quality in sustainable harmony with the populations of beneficial soil microbes and to the detriment of pathogens This book explores current knowledge for each of these aspects of soil microbiology and indicates where future progress is most likely to aid in increasing crop productivity by means which are environmentally benign and beneficial The Future Al Gore, 2013-01-29 NEW YORK TIMES BESTSELLER From the former vice president and 1 New York Times bestselling author comes An Inconvenient Truth for everything a frank and clear eyed assessment of six critical drivers of global change in the decades to come Ours is a time of revolutionary change that has no precedent in history With the same passion he brought to the challenge of climate change and with his decades of experience on the front lines of global policy Al Gore surveys our planet's beclouded horizon and offers a sober learned and ultimately hopeful forecast in the visionary tradition of Alvin Toffler's Future Shock and John Naisbitt's Megatrends In The Future Gore identifies the emerging forces that are reshaping our world Ever increasing economic globalization has led to the emergence of what he labels Earth Inc an integrated holistic entity with a new and different relationship to capital labor consumer markets and national governments than in the past The worldwide digital communications Internet and computer revolutions have led to the emergence of the Global Mind which links the thoughts and feelings of billions of people and connects intelligent machines robots ubiquitous sensors and databases The balance of global political economic and military power is shifting more profoundly than at any time in the last five hundred years from a U S centered system to one with multiple emerging centers of power from nation states to private actors and from political systems to markets A deeply flawed economic compass is leading us to unsustainable growth in consumption pollution flows and depletion of the planet's strategic resources of topsoil freshwater and living species Genomic biotechnology neuroscience and life sciences revolutions are radically transforming the fields of medicine agriculture and molecular science and are putting control of evolution in human hands There has been a radical disruption of the relationship between human beings and the earth's ecosystems along with the beginning of a revolutionary transformation of energy systems agriculture transportation and construction

worldwide From his earliest days in public life Al Gore has been warning us of the promise and peril of emergent truths no matter how inconvenient they may seem to be As absorbing as it is visionary The Future is a map of the world to come from a man who has looked ahead before and been proven all too right Praise for The Future Magisterial The passion is unmistakable So is the knowledge Practically every page offers an illumination Bloomberg In The Future Gore takes on a subject whose scale matches that of his achievements and ambition The New York Times Book Review Historically grounded Gore s strengths lie in his passion for the subject and in his ability to take the long view by putting current events and trends in historical context Publishers Weekly Provocative smart densely argued a tour de force of Big Picture thinking Kirkus Reviews starred review A luminously intelligent analysis that is packed with arresting ideas and facts The Guardian

Microbial Ecology in Sustainable Agroecosystems Tanya E. Cheeke,David C. Coleman,Diana H. Wall,2012-07-17

While soil ecologists continue to be on the forefront of research on biodiversity and ecosystem function there are few interdisciplinary studies that incorporate ecological knowledge into sustainable land management practices Conventional high fossil fuel input based agricultural systems can reduce soil biodiversity alter soil community structure

Toward Sustainable Agricultural Systems in the 21st Century National Research Council,Division on Earth and Life Studies,Board on Agriculture and Natural Resources,Committee on Twenty-First Century Systems Agriculture,2010-07-25 In the last 20 years there has been a remarkable emergence of innovations and technological advances that are generating promising changes and opportunities for sustainable agriculture yet at the same time the agricultural sector worldwide faces numerous daunting challenges Not only is the agricultural sector expected to produce adequate food fiber and feed and contribute to biofuels to meet the needs of a rising global population it is expected to do so under increasingly scarce natural resources and climate change Growing awareness of the unintended impacts associated with some agricultural production practices has led to heightened societal expectations for improved environmental community labor and animal welfare standards in agriculture Toward Sustainable Agricultural Systems in the 21st Century assesses the scientific evidence for the strengths and weaknesses of different production marketing and policy approaches for improving and reducing the costs and unintended consequences of agricultural production It discusses the principles underlying farming systems and practices that could improve the sustainability It also explores how those lessons learned could be applied to agriculture in different regional and international settings with an emphasis on sub Saharan Africa By focusing on a systems approach to improving the sustainability of U S agriculture this book can have a profound impact on the development and implementation of sustainable farming systems Toward Sustainable Agricultural Systems in the 21st Century serves as a valuable resource for policy makers farmers experts in food production and agribusiness and federal regulatory agencies

Shaping sustainable agrifood futures: pre-emerging and emerging technologies and innovations for impact

Alexandrova-Stefanova, N.; Nosarzewski, K.; Mroczek, Z.K.; Audouin, S.; Djamen, P.; Kolos, N.; Wan, J.,2024-10-16 FAO s

Office of Innovation is working with CIRAD International Cooperation Centre of Agricultural Research for Development and other partners on an FAO initiative on foresight on pre emerging and emerging agrifood technologies and innovations aligned with UN 2030 and The Future of Food and Agriculture 2022 engaging all key actors of agrifood innovation systems in the foresight on pre emerging and emerging technologies and innovations PETIAS to better prepare for alternative futures feeding it into anticipatory action and convening the global community for constructive multilateral dialogue and knowledge exchange The aim is to support policymakers investors and innovation actors in their approaches and decision making The study assesses a selection of technologies and innovations which potentially could be of paramount importance in addressing agrifood challenges until 2050 as well as the most important trends and drivers that will influence the emergence of agrifood PETIAS and their triggers of change including some regional aspects and stakeholders perspectives The goal is also to build plausible future scenarios for the evolution of the PETIAS and innovation process governance in the future with the time horizon of 2050 to inform future oriented policymaking The report is built with inputs from a multistakeholder Delphi survey online and in presence workshops with experts and stakeholders the FAO FSN Forum as well as regional foresight exercises Latin America and Central Asia and Caucasus *Environment and Society in Ethiopia* Girma Kebede, 2016-10-04 Ethiopia

is facing environmental and poverty challenges and urgently needs effective management of its environmental resources Much of the Ethiopian landscape has been significantly altered and reshaped by centuries of human activities and three quarters of the rural population is living on degraded land Over the past two decades the country has seen rapid economic and population growth and unparalleled land use change This book explores the challenges of sustaining the resource base while fuelling the economy and providing for a growing population that is greatly dependent on natural resources for income and livelihoods Adopting a political ecology perspective this book comprehensively examines human impacts on the environment in Ethiopia defining the environment both in terms of the quantity and quality of renewable and non renewable natural resources With high levels of economic production and consumption also come unintended side effects waste discharges emissions of pollutants and industrial effluents These pollutants can degrade the quality of water air land and forests as well as harm the health of people animals and other living organisms if untreated or disposed of improperly This book demonstrates how the relationship between society and environment is inherently and delicately interwoven providing an account of Ethiopia's current environment and natural resource base and future considerations for environmentally sustainable development **Software Engineering Research and Practice and e-Learning, e-Business, Enterprise Information Systems, and e-Government** Hamid R. Arabnia, Leonidas Deligiannidis, 2025-04-15 This book constitutes the

proceedings of the 22nd International Conference on Software Engineering Research and Practice SERP 2024 and the 23rd International Conference on e Learning e Business Enterprise Information Systems and e Government EEE 2024 held as part of the 2024 World Congress in Computer Science Computer Engineering and Applied Computing in Las Vegas USA during

July 22 to July 25 2024 For SERP 2024 52 submissions have been received and 9 papers have been accepted for publication in these proceedings the 12 papers included from EEE 2024 have been carefully reviewed and selected from 55 submissions They have been organized in topical sections as follows software engineering research and practice e learning e business enterprise information systems and e government

Can Emerging Technologies Make a Difference in Development? Rachel A. Parker, Richard P. Appelbaum, 2013-02-28 In this innovative and entirely original text which has been thoughtfully edited to ensure coherence and readability across disciplines scientists and practitioners from around the world provide evidence of the opportunities for and the challenges of developing collaborative approaches to bringing advanced and emerging technology to poor communities in developing countries in a responsible and sustainable manner This volume will stimulate and satisfy readers seeking to engage in a rich and challenging discussion integrating many strands of social thought and physical science For those also seeking to creatively engage in the great challenges of our times for the benefit of struggling farmers sick children and people literally living in the dark around the world may this volume also spark imagination inspire commitment and provoke collaborative problem solving

Agrobiodiversity Management for Food Security Jillian M. Lenné, David Wood, 2011 Agrobiodiversity provides most of our food through our interaction with crops and domestic animals Future global food security is firmly anchored in sound science based management of agrobiodiversity This book presents key concepts of agrobiodiversity management critically reviewing important current and emerging issues including agricultural development crop introduction practical diversity in farming systems impact of modern crop varieties and GM crops conservation climate change food sovereignty and policies It will also address claims and misinformation in the subject based on sound scientific principles

A Sustainability Challenge National Research Council, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on Food Security for All as a Sustainability Challenge, 2012-03-28 The National Research Council's Science and Technology for Sustainability Program hosted two workshops in 2011 addressing the sustainability challenges associated with food security for all The first workshop Measuring Food Insecurity and Assessing the Sustainability of Global Food Systems explored the availability and quality of commonly used indicators for food security and malnutrition poverty and natural resources and agricultural productivity It was organized around the three broad dimensions of sustainable food security 1 availability 2 access and 3 utilization The workshop reviewed the existing data to encourage action and identify knowledge gaps The second workshop Exploring Sustainable Solutions for Increasing Global Food Supplies focused specifically on assuring the availability of adequate food supplies How can food production be increased to meet the needs of a population expected to reach over 9 billion by 2050 Workshop objectives included identifying the major challenges and opportunities associated with achieving sustainable food security and identifying needed policy science and governance interventions Workshop participants discussed long term natural resource constraints specifically water land and forests soils biodiversity and fisheries They also examined the role of

knowledge technology modern production practices and infrastructure in supporting expanded agricultural production and the significant risks to future productivity posed by climate change This is a report of two workshops **Soil Constraints on Crop Production** Yash Dang, Neal Menzies, Ram C Dalal, 2022-08-19 Globally over two thirds of soils are affected by physical chemical or biological soil constraints These constraints cause significant yield loss and as such identifying appropriate management strategies is crucial to ensure future world food production In order to help agricultural researchers and practitioners better understand soil constraint management this book comprehensively outlines the occurrence of the major soil constraints and the most appropriate strategies to manage these for sustainable food production Importantly it brings together experts from major agricultural regions globally to highlight approaches with the most success in different environmental and socioeconomic regions worldwide **Transformative Food Value Chains for Local Development** Silke Maria Stöber, Wolfgang Bokelmann, Walter Odongo, Susanne Huyskens-Keil, Joanita Kataike, 2024-01-26 Understanding the capacity of food systems to undertake a transformation towards sustainability requires understanding how resources stream in and out of the systems As complex socio economic structures food and agricultural value chains are important means for channeling resources knowledge and agency in and out of rural areas Given their prominent role on the development agendas there is mixed evidence as to what extent value chains and their actors can contribute to improving the livelihoods in poor rural and urban areas In order to shape sustainable living places transformative capacities and good governance are important mainstays Transformative agri food value chains are robust and often act as the sole transmission belt for returning capital resources and identity back into vulnerable areas Moreover domestic or regional chains may provide urban consumers with fresh quality food that also contributes to regional identity **Alleviating Global Hunger** United States. Congress. Senate. Committee on Foreign Relations, 2009

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