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Altri autori (Persone)	LakraW. S GopalakrishnanA BansalK. C
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Nota di contenuto	1. Distinguishing Nitrogen and Water Stress in Maize Crop using Hyperspectral Data -- 3. Overcoming Challenges in Building and Deploying AI-based Climate-Smart Digital Agriculture -- A Comprehensive AI/ML-Enabled Data Quality Framework -- 3. Agroforestry: A Nature-based Solution for Mitigation and Adaptation to Climate Change and Agrobiodiversity Conservation -- 4. Intersecting Climate Change Adaptation and Marine Fisheries Management: Opportunities for Sustainable and Resilient Fisheries -- 5. High Time to Revive Soil Structure and Biome by Harnessing Modern Advance Technologies: Technological Advancement in Soil Improvement -- 6. Nature-Based Solutions for Climate Resilient Agriculture: Embracing the 5A Approach -- 7. Impact of Climate Change on Livestock Production

and Mitigation Strategies in Coastal Region -- 8. Soil Health Enhancement for Sustainable Agriculture Production -- 9. Organic Production of Fruits: Issues, Challenges and Opportunities -- 10. Opportunities in Big Data Analytics and ICTs to Accelerate Climate Adaptation -- 11. Impact of Climatic Changes on Food Safety and Nutrition -- 12. Innovations in Information Dissemination in Indian Agriculture: Prospects, Challenges and Way Ahead -- 13. Carbon Farming Opportunities and Action Plan towards Achieving SDGs in India -- 14. Resource Efficient and Environment-Friendly Production of Pulses & Millets -- 15. Advancing Towards Sustainable Agriculture through Artificial Intelligence: Case Studies in Indian Agriculture.

Sommario/riassunto

This edited volume, titled "Advances in Agri-Food Systems" is the first volume that comprises of contributed chapters from 16 leading experts in the fields of agriculture and allied sectors. These chapters are primarily based on invited lectures delivered by experts during the XVI Agricultural Science Congress, held in Kochi, India, from October 10-13, 2023. The book covers all major topics related to advances in agri-food transformation towards sustainability in this era of climate change. These topics include field crops, horticultural crops, the livestock sector, nutritional aspects, the application of the latest field-based technologies, and agriculture-related policies and institutions. Some of the key topics covered are: Nitrogen and Water Stress in Maize Crop; Rainwater Harvesting Technologies; Applications of Big Data Analytics, Artificial Intelligence and Digital Agriculture; Nature-based Solutions; Impact of Climate Change on Livestock, Agroforestry, Fisheries; and Resource Efficient and Environment-Friendly Production, among others. This book aims to exchange and share the latest research findings, ideas, and experiences on all aspects of agri-food systems to formulate pathways for transforming our agri-food system to meet the United Nations Sustainable Development Goals (SDGs) by 2030. It provides valuable insights and knowledge to a diverse audience, including scientists, academicians, students, entrepreneurs, farmers, policymakers, and others.
