

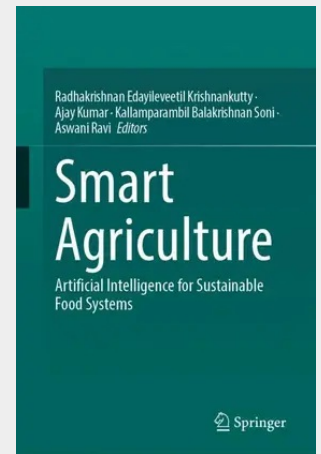
Smart Agriculture

Artificial Intelligence for Sustainable Food Systems

This book provides deeper understanding into the framework of artificial intelligence (AI) based applications in agriculture. It starts with discussing the basics and history of AI, and then delves into identifying the opportunities of AI intervention at various stages of agricultural practices. AI and its subset, machine learning, present an outstanding tool for analyzing, understanding and identifying data patterns in farming. This book thus discusses the complete potential of computational intelligence techniques for enhancing crop productivity and yield. Main topics in the book include use of AI in soil health monitoring, irrigation systems, evaluation of crop nutrients, intelligent spraying of biofertilizers and plant disease management. It also outlines the legal and ethical aspect of integrating AI into agriculture.

This book is suitable for scientists, academicians, industrialists and professionals involved in agriculture extension programs, plant sciences, environmental sciences and agricultural biotechnology.

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