Smart Farming and Digital Agriculture: Technology-Driven Solutions for the Future

Kalluri Praveen
Editor

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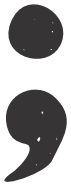

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Preface

Since the beginning of time, agricultural practice is what people used to base their civilization. It affected the societies and economies and cultures in the world. Looking at the current level of the dynamic in technology and at the same time the world facing the challenges of problems in the environment and global, we require a new era of the development in farming, which will be based on the growth of technology, data-creating and smart decision making. The book Smart Farming and Digital Agriculture: Technology-Driven Solutions to future has targeted to present the ground rules to this shift and the learning of digital innovations to the future agricultural practices and environmental sustainability policies. This book has fifteen chapters that will take you through the various forms of developments, such as artificial intelligence, precision agriculture, the Internet of Things, big data, drones, robotics, blockchain, climate-resilient methods, etc. Individual chapters will deliver an integrated perspective of both science and practice in a bid to better empower students, researchers, practitioners as well as policy-makers to have insights of the promise, in addition to practice of digital agriculture. With this book, we would like to contribute to more knowledge of the technology and even the human component of farming. The farmers are the backbone of any agrarian society and farming is as a legacy and a moral imperative that can be applied to the growth of food security as well as the preservation of the environment. It is time to consider how it can be turned into a profit without having to use natural resources using sustainability and intelligent practices. We had been aiming to contribute a positive, practical instrument to anyone of us striving to make agriculture work to a future business involving a collaborative, intelligent, and empathetic venture. Digital agriculture is not merely a digital one, it is, in reality, a collaborative venture - participatory, and rooted on the fact that we are able to desire to take care to feed the world responsibly.

Kalluri Praveen

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