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an agricultural robot is also called
as an agribot or agbot this is a
robot which is autonomous and is
helpful in farming it helps the
farmer to raise the crops
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The history of Japan's agriculture is characterized by efforts to increase production and productivity. At the beginning of the 21st century, both public and private sector research has

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Practice focused on developing ever-more sophisticated tools to address a wide-range of challenges facing the agricultural industry. An amazing array of automation technologies and robots have been developed in the process, to do everything from tilling fields to

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Practice picking strawberries, from planting rice seedlings to autonomously weeding the paddies. This richly-illustrated volume surveys the results of these efforts, concisely and plainly presenting specific examples of the latest robotic

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Practices mechanisms and practices for
agricultural applications.

The aim of the book is to
introduce the state-of-the-art
technologies in the field of
robotics, mechatronics and
automation in agriculture in order

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to summarize and review the improvements in the methodologies in agricultural robotics. Advances made in the past decades are described, including robotics for agriculture, mechatronics for agriculture, kinematics, dynamics and control

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Practice of agricultural robotics, and a wide range of topics in the field of robotics, mechatronics and automation for agricultural applications.

Over the past few decades, extensive research has been

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Practices conducted on the applications of agricultural robots and automation to a variety of field and greenhouse operations, and technical fundamentals and their feasibility have also been widely demonstrated. Due to the unstructured environment,

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adverse interference and complicated and diversified operation process are the key of blocking its commercialization in robotic agricultural operations. Because of the development of automation techniques, smart sensors, and information

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Practices, some types of agricultural robots have achieved considerable success in recent years. This book intends to provide the reader with a comprehensive overview of the current state of the art in agricultural robots, fundamentals,

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Practice applications in robotic
agricultural operations.

Agricultural automation is the
core technology for computer-
aided agricultural production
management and
implementation. An integration of

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Practice, infotronics, and precision farming technologies, it creates viable solutions for challenges facing the food, fiber, feed, and fuel needs of the human race now and into the future. Agricultural Automat

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Practice This book shares the latest findings on this topic, systematically introduces readers to advances made in robotic harvesting around the globe, and explores the relations between the development of robotic harvesting and the respective

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Social/economic conditions and agricultural business patterns in various countries/regions. Due to the unstructured setting it is used in, and to the significant differences between individual fruit and vegetable targets, robotic harvesting is currently

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Practice considered to be one of the most challenging robotics technologies. Accordingly, research into this area involves the integration of various aspects, including biomechanics, optimization design, advanced perception and intelligent control. In addition to

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Practice rapid and damage-free robotic harvesting, which reflects the multidisciplinary nature of the topic, further aspects addressed include gripping collisions with viscoelastic objects, using lasers to cut plant material, plant-fruit response to vacuum sucking and

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pulling, and performance probability distribution.

Highlighting outstanding innovations and reflecting the latest advances in intelligent agricultural equipment in China, the book offers a unique and valuable resource.

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Agricultural Internet of Things and Decision Support for Smart Farming reveals how a set of key enabling technologies (KET) related to agronomic management, remote and proximal sensing, data mining,

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decision-making and automation can be efficiently integrated in one system. Chapters cover how KETs enable real-time monitoring of soil conditions, determine real-time, site-specific requirements of crop systems, help develop a decision support system (DSS)

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Practice aimed at maximizing the efficient use of resources, and provide planning for agronomic inputs differentiated in time and space. This book is ideal for researchers, academics, post-graduate students and practitioners who want to embrace new agricultural

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Practices. Presents the science behind smart technologies for agricultural management Reveals the power of data science and how to extract meaningful insights from big data on what is most suitable based on individual time and

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Practice Proves how advanced technologies used in agriculture practices can become site-specific, locally adaptive, operationally feasible and economically affordable

The book deals with the present

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state and problems of integrated pest management as relating to stakeholder acceptance of IPM and how integrated pest management can become a sustainable practice. The discussions include using less pesticides and the possibility of

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eliminating pesticides from
agricultural practice.

The aim of this book is to understand and critically appraise science-based transgression dynamics in their whole complexity. It includes

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Contributions from experts with different disciplinary backgrounds, such as philosophy, history and sociology. Thus, it is in itself an example of boundary transgression. Scientific disciplines and their objects have tended to be seen as permanent and

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Practice. However, science is better conceived as an activity that constantly surpasses, erases and rebuilds all kinds of boundaries, either disciplinary, socio-ethical or ecological. This transgressive capacity, a characteristic trait of science and

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its applications, defines us as
“knowledge societies.” However,
scientific and technological
developments are also sources of
serious environmental and social
concerns.

Food has a fundamental position

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Practice, ensuring health, happiness and political stability. Consequently, the management of food chains and networks is one of the most important aspects of the modern food industry. Yet food is difficult to handle along long supply chains,

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with a limited window for storage and handling time, and the risk of spoiling if incorrectly handled or processed. These issues can lead to logistical problems that can severely affect product quality and freshness. Intelligent Agrifood Chains and Networks offers a

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timely discussion of the current state of food logistics, and indicates the major ICT problems that can occur during production, warehousing, transportation and retailing. Emphasis is given to new technologies and intelligent systems that are able to process

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time-dependent information, handle emergencies, and support logistics operations in food management. In particular, the authors show how telematics and RFID can be implemented in the supply chain. The book also includes real-life case studies, in

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Practice which actual food logistics problems and their solutions are presented, demonstrating how systemic and logistics approaches may be combined. The book is directed at academics, researchers, and students seeking the necessary

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Practice background in terms of the interplay between the food supply chain and ICT. Its comprehensive review of current issues in the food supply chain will be of interest to managers and technicians working in the food industry, while its technological

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Practice will be invaluable to food scientists and technologists working in research and industry environments.

In the event of large crises (earthquakes, typhoons, floods, ...), a primordial task of the fire

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and rescue services is the search for human survivors on the incident site. This is a complex and dangerous task, which - too often - leads to loss of lives among the human crisis managers themselves. This book explains how unmanned search

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Practice can be added to the toolkit of the search and rescue workers, offering a valuable tool to save human lives and to speed up the search and rescue process. The introduction of robotic tools in the world of search and rescue is not straightforward, due to the fact

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Practices that the search and rescue context is extremely technology-unfriendly, meaning that very robust solutions, which can be deployed extremely quickly, are required. Multiple research projects across the world are tackling this problem and in this

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Practices, a special focus is placed on showcasing the results of the European Union ICARUS project on this subject. The ICARUS project proposes to equip first responders with a comprehensive and integrated set of unmanned search and rescue tools, to

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Practice the situational awareness of human crisis managers, so that more work can be done in a shorter amount of time. The ICARUS tools consist of assistive unmanned air, ground, and sea vehicles, equipped with victim-detection sensors. The

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Unmanned vehicles collaborate as a coordinated team, communicating via ad hoc cognitive radio networking. To ensure optimal human-robot collaboration, these tools are seamlessly integrated into the command and control equipment

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of the human crisis managers and a set of training and support tools is provided to them in order to learn to use the ICARUS system. The research leading to these results has received funding from the European Community's Seventh Framework Programme

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