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Smart Agricultural Services Using Deep Learning, Big Data, and IoT

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Description & Coverage

Description:

The agricultural sector can benefit immensely from developments in the field of smart farming. However, this research area focuses on providing specific fixes to particular situations and falls short on implementing data-driven frameworks that provide large-scale benefits to the industry as a whole. Using deep learning can bring immense data and improve our understanding of various earth sciences and improve farm services to yield better crop production and profit.

Smart Agricultural Services Using Deep Learning, Big Data, and IoT is an essential publication that focuses on the application of deep learning to agriculture. While highlighting a broad range of topics including crop models, cybersecurity, and sustainable agriculture, this book is ideally designed for engineers, programmers, software developers, agriculturalists, farmers, policymakers, researchers, academicians, and students.

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Chapter 6

Internet of Things and the Role of Wireless Sensor Networks in IoT

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ABSTRACT

Internet of things (IoT) is a network of connected devices that work together and exchange information. In IoT, things or devices means any object with its own IP address that is able to connect to a network and can send and receive using internet. Examples of IoT devices are computers, laptops, smart phones, and objects that are operational with chips to collect and correspond data over a network. The range of internet of things devices is huge. Consumers use smart phones to correspond with IoT devices.

INTRODUCTION

The Internet of Things (IoT) is a collection of interrelated and interconnected computing devices, machines, objects and people. These things have a unique identifiers and transfer data over a network, without requiring human-to-human or human-to-computer interaction. Internet of things is an aggregation of things, physical objects, and more particularly Smart things.

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