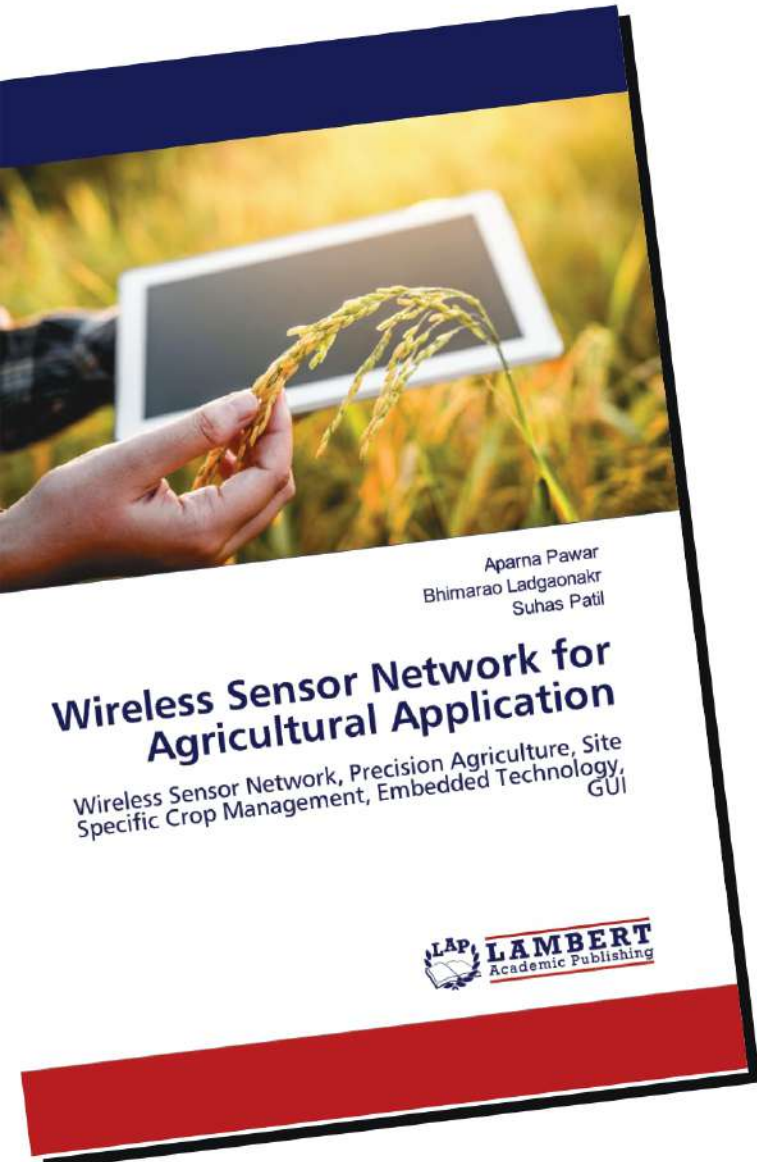




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Wireless Sensor Network for Agricultural Application

Wireless Sensor Network, Precision Agriculture, Site Specific Crop Management, Embedded Technology, GUI

Aparna Pawar

ISBN: 978-620-3-19336-7

Indeed, Wireless Sensor Network (WSN), is emerging as powerful platform for distributed embedded computing and data management. It ensures the deployment of both embedded technology and computer based data management technology along with the involvement of wireless communication. The ubiquitous field, the WSN exhibit wide spectrum of applications. Emphasizing the themes of Site Specific Crop Management (SSCM), the principle of Precision Agriculture, the Wireless Sensor Network is designed and implemented to monitor the environmental parameters of the high-tech polyhouse. The WSN is designed for monitoring of the Humidity, Temperature and Intensity of Light in the real units. The systems comprises ten Wireless Sensor Nodes, routed through star networking protocol and are located at different places with the polyhouse environment, wherein the Gerbera, Carnesian, Ginger and Rose are growing. The values of parameters are collected at the Base Station, which is developed about computer. A smart GUI is developed to realize the deployment of information processing Technology to facilitate the demonstration of Site Specific data and data logging as well.

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Recently, the great revolution is taking place in the field of smart electronic system for precise measurement various parameters. For development of smart system smart sensor is required. Therefore, the work on comparative study of spin coated, plasma treated and plasma polymerized based capacitive / resistive type humidity sensor is reported in this book. PolyMethyl Methacrylate (PMMA) is selected for the study the sensing properties.



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A Comparative Study Humidity Sensors

Plasma Polymerized and Spin Coated Thin Film
Sensors



Deshpande, Pawar, Gangal

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