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.
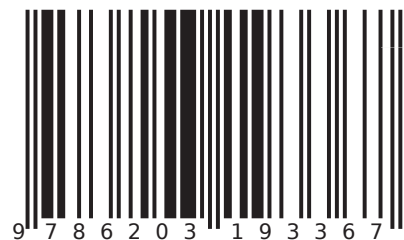
Aparna Pawar

Bhimarao Ladgaonakr

Suhas Patil

Dr. Aparna Madhukar Pawar is Assist. Professor in Department of Electronics, T. C. College, Baramati. Dist. Pune (India). His area of research is the Wirless Senosr Network and IoT design, Embedded System, Instrumentation designing. He presented more than 40 research papers in National/International conferences & 15 papers in International Journa

Wireless Sensor Network for Agricultural Application

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

Pawar, Ladgaonakr, Patil

9 786203 193367

Principal
Tuljaram Chaturchand College
Baramati

Aparna Pawar
Bhimarao Ladgaonakr
Suhas Patil

Wireless Sensor Network for Agricultural Application

FOR AUTHOR USE ONLY

Principal
Tuljaram Chaturchand College
Baramati

Aparna Pawar
Bhimarao Ladgaonakr
Suhas Patil

Wireless Sensor Network for Agricultural Application

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

FOR AUTHOR USE ONLY

Principal
Tuljaram Chaturchand College
Baramati

LAP LAMBERT Academic Publishing

FOR AUTHOR USE ONLY

Principal
Tuljaram Chaturchand College
Baramati

INDEX

FOR AUTHOR USE ONLY

ii

Principal
Tuljaram Chaturchand College
Baramati

iii

Principal
Tuljaram Chaturchand College
Baramati

Principal
Tuljaram Chaturchand College
Baramati

FOR AUTHOR USE ONLY

Principal
Tuljaram Chaturchand College
Baramati

v