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Nota di contenuto	Intro -- Preface -- Conference Organization -- Contents -- Part II -- Contents -- Part I -- Effects of Waterlogging and Shading at Jointing and Grain-Filling Stages on Yield Components of Winter Wheat -- Abstract -- 1 Introduction -- 2 Experiments and Methods -- 2.1 Experimental Design -- 2.2 Statistics Analysis -- 3 Results -- 3.1 Effects of Waterlogging and Shading on Wheat Grain Yield at Jointing Stage -- 3.2 Effects of Waterlogging and Shading on Wheat Grain Yield at Grain-Filling Stage -- 4 Discussion -- 5 Conclusions -- Acknowledgment -- References -- The Measurement of Fish Size by Machine Vision - A Review -- Abstract -- 1 Introduction -- 2 Image Acquisition -- 2.1 Sonar -- 2.2 Single Camera -- 2.3 Stereo Camera -- 3 Length Measurement -- 3.1 Length Measurement in 2D -- 3.1.1 Linear Measurement -- 3.1.2 Non-linear Measurement -- 3.2 Length Measurement in 3D -- 4 Area Measurement -- 5 Discussion and Perspective -- 6 Conclusion -- Acknowledgment -- References -- Study on Growth Regularity of Bacillus Cereus Based on FTIR -- Abstract -- 1 Introduction -- 2 Experiments and Methods -- 2.1 Experimental Material and Instruments -- 2.2 Experimental Methods -- 2.2.1 LB Culturing Medium Configuration -- 2.2.2 Measurement of the Reproduction Number -- 2.2.3 Growth Regularity of Microbe -- 2.2.4 Detection of FTIR -- 3 Results and Discussion -- 3.1 FTIR Analysis of Bacillus Cereus -- 3.2 The Two Order Derivative Spectrum Analysis of Bacillus Cereus -- 3.2.1 Composition of Bacillus Cereus -- 3.2.2 The Second Order Derivative Spectrum Analysis of Bacillus Cereus in Different Periods -- 4 Conclusion -- Acknowledgements -- References -- Soybean Extraction of Brazil Typical Regions Based on Landsat8 Images -- Abstract -- 1 Introduction -- 2 Study Area and Data Source -- 2.1 Study Area -- 2.2 Data -- 3 Methodology -- 4 Results and Discussion. 5 Conclusions -- Acknowledgment -- References -- Study on Landscape Sensitivity and Diversity Analysis in Yucheng City -- Abstract -- 1 Introduction -- 2 Materials and Methods -- 2.1 Study Area Situation -- 2.2 Scale Effect System and Landscape Significance -- 3 Results and Analysis -- 3.1 Correlation Analysis of Landscape Index -- 3.2 Sensitivity Analysis and Spatial Pattern of 12 Landscapes -- 4 Conclusions -- Acknowledgements -- References -- Application and Implementation of Private Cloud in Agriculture Sensory Data Platform -- Abstract -- 1 Introduction -- 2 Overall Design of Private Cloud in Agricultural Sensor Data Platform -- 3 The Design of SensorCache Based on Private Cloud in Hadoop Sensor Data Platform -- 3.1 The Design of the Memcached and Mysql Cluster -- 4 The Design of SensorManager Based on Private Cloud in Hadoop Sensor Data Platform -- 5 The Design of SensorStorage and SensorStor in Sensor Data Platform -- 5.1 The Design of NoSql's Sensor Data -- 6 Conclusions -- Acknowledgements -- References -- Analysis of Differences in Wheat Infected with Powdery Mildew Based on Fluorescence Imaging System

References -- Study on the Mutton Freshness Using Multivariate Analysis Based on Texture Characteristics -- Abstract -- 1 Introduction -- 2 Experiments and Methods -- 2.1 Experimental Samples -- 2.2 Experimental Methods -- 3 Results and Discussion -- 3.1 Changes of Mutton Freshness -- 3.2 Texture Characteristic Parameters of Mutton Changed with Freshness -- 3.3 Discrimination of Mutton Freshness by PCA and CDA -- 3.4 Prediction of Mutton Freshness Using Texture Characteristic Parameters -- 4 Conclusions -- Acknowledgments -- References -- Research and Application on Protected Vegetables Early Warning and Control of Mobile Client System.
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3 Survey of the Research Area and Research Method.

Sommario/riassunto

The two volumes IFIP AICT 478 and 479 constitute the refereed post-conference proceedings of the 9th IFIP WG 5.14 International Conference on Computer and Computing Technologies in Agriculture, CCTA 2015, held in Beijing, China, in September 2015. The 122 revised papers included in this volume were carefully selected from 237 submissions. They cover a wide range of interesting theories and applications of information technology in agriculture, including intelligent sensing, monitoring and automatic control technology; key technology and models of the Internet of things; intelligent technology for agricultural equipment; computer vision; computer graphics and virtual reality; computer simulation, optimization and modeling; cloud computing and agricultural applications; agricultural big data; decision support systems and expert systems; 3s technology and precision agriculture; quality and safety of agricultural products; detection and tracing technology; and agricultural electronic commerce technology.