



Plant Phenomics A SCIENCE PARTNER JOURNAL

Beyond Geosense

ALPHA BANK

Brunata

ERGO PLANNING

TEAMCERT

Day 1 - Thursday, 27 June 2019

9:30 | Registration - Welcome Coffee

- 11:00 | Conference Opening - Welcome Note Prof. Dionysis Bochtis
11:30 | Keynote speech - Prof. George Vellidis SmartIrrigation
12:15 | Keynote speech - Prof. Raj Khosla Future of Farming
13:00 | Round Table 'Governance in Digitized Agriculture'

14:00 | Lunch Break

Room 1

Room 2

- 15:00 | Session 1.1 | Thematic Area: Decision
1. Development and evaluation of a semi-empirical tire-soil interaction model
2. Accounting for the uncertainty of weather forecasts in decision support systems used for crop management
3. Numerical determination of air exchange rate...

- 15:00 | Session 2.1 | Thematic Area: Data
1. Earth observation data and spatial data sets analysis
2. Big Data Management Tools for Smart Farming Data
3. Deep Learning based Plant Part Detection

17:00 | Coffee Break

- 17:30 | Session 1.2 | Thematic Area: Decision
1. Programmable Structure of unified elements for model based planning
2. Effect of climate safety-bounds on the energy saving and economic performance of greenhouses
3. Modelling approach applied to milking ejection curves...

- 17:30 | Session 2.2 | Thematic Area: Data
1. Plant disease detection based on multispectral and hyperspectral image analysis using deep learning techniques
2. Removing spatial effects of spectral datasets acquired into an experimental design...

19:30 | Poster Session

- 1. Global sensitivity analysis of inputs and parameters in the leaf wetness model (CART model)
2. Analysis of the use of automatic functions of combine harvesters
3. Design of a Cucumber Growth Prediction Model Based on Environmental Data...

20:30 | Welcome Dinner

End Day 1

Day 2 - Friday, 28 June 2019

Room 1

Room 2

- 09:30 | Session 1.3 | Thematic Area: Cross-Cutting
1. Evolution of business models in European agriculture
2. Environmental Impact of Precision Agriculture
3. The Management and Efficiency Evaluation of Rural Areas with Artificial Intelligence

- 09:30 | Session 2.3 | Thematic Area: Sensors
1. Crop model, sensors measurements and decision support tools: a successful combination to optimize wheat crop management
2. Evaluation of Intel Realsense Depth cameras for open source remote monitoring of heifers on pastures

11:30 | Coffee Break

- 12:00 | Session 1.4 | Thematic Area: Cross-Cutting
1. Assessing the impact of the IoT technology-based swine farm environment management system on farm productivity
2. Use of electronic identification and new technologies on European Sheep farms

- 12:00 | Session 2.4 | Thematic Area: Sensors
1. Crop pest and disease mapping using UAV technology: A comparison of OBIA and CNN image classification approaches
2. Low-cost and automated remote sensing technology to assess fruit crops utilizing machine vision and artificial intelligence

14:00 | Lunch Break

- 15:00 | Session 1.5 | Thematic Area: Cross-Cutting
1. Development of a Brazilian Digital Footprint on 'Food and Territories'
2. Online Fresh Food Sales in Korea: Mobile vs. PC and Retail vs. Direct Sales

- 14:00 | Session 2.5 | Thematic Area: Sensors
1. First step to an optical sensor based on laser speckle measurements to assess chemical and physical properties in agriculture and environmental applications

17:00 | Coffee Break

- 17:30 | Session 1.6 | Thematic Area: Decision
1. Measurement of income risk as benchmarking tool for dairy farms
2. Definition of reference models for functional parameters and price for combine harvesters

- 17:00 | Session 2.6 | Thematic Area: Data
1. Hyperspectral near-infrared imaging for detection of bacterial fruit blight in watermelon seedlings
2. The scale insect detection application using convolutional neural network

19:30 | Gala Dinner

End Day 2

Day 3 - Saturday, 29 June 2019

Room 1

Room 2

- 09:30 | Session 1.7 | Thematic Area: Decision
1. A New Graph-Theoretic Approach for Analyzing Soil Microbiomes
2. Application possibilities of IoT based management systems in agriculture
3. Short-term climate prediction model for management of agricultural environment

- 9:30 | Session 2.7 | Thematic Area: Action
1. Implementation of a monitoring and warning tool on climatic conditions that may impact winter wheat production
2. Smartphone application EBENE for assessment of animal welfare in poultry and rabbit productions

11:30 | Coffee Break

- 12:00 | Session 1.8 | Thematic Area: Decision
1. The precision of digital elevation data - Implications for distance requirements on sloping farmland
2. Precision Crop Production Planning: Integrating Agro-knowledge, Resource Management and Timeline for Profitable Crops

- 12:00 | Session 2.8 | Thematic Area: Data
1. Options for Automatic Identifying of User Activities in Usability Testing
2. Solving the issues in drone crop phenotyping

14:00 | Lunch Break

- 15:00 | Session 1.9 | Thematic Area: Decision
1. Proactive auditing: towards a certification scheme that is supported by a standardized transparency system
2. Assessing the efficiency of arable crops production in a cross-national context

- 14:00 | Session 2.9 | Thematic Area: Data
1. MULTIPASS: a managing the consents of access to farm data in a chain of trust to make new services emerge for farmers
2. API-AGRO: A platform to industrialize data exchanges in agriculture

17:00 | Coffee Break

- 17:30 | Session 1.10 | Thematic Area: Action
1. SYSTERE, a computer tool for evaluating cropping systems and designing innovative and multi-performance alternatives
2. Performance evaluation of hydraulic parameters of a developed drip irrigation system

- 17:30 | Session 2.10 | Thematic Area: Data
1. The detection of outliers and tendencies in milk reservoirs of dairy farms using machine learning techniques
2. Design of Detection and Identification System of Whiteflies in a Greenhouse Environment

19:30 | End Day 3

