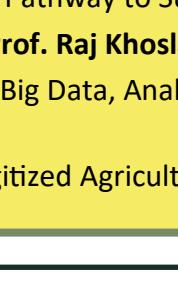
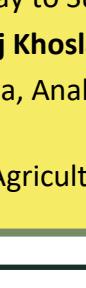


**Plant Phenomics**  
A SCIENCE PARTNER JOURNAL  
**GeoSense**



EFITA-HAI/CTA-AgriTech Congress  
EUROPEAN FEDERATION FOR INFORMATION TECHNOLOGY  
IN AGRICULTURE, FOOD AND THE ENVIRONMENT

Rhodes, Greece | June 27 - 29



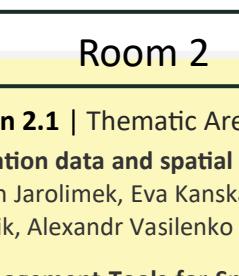
Digitizing Agriculture



Brunata



ALPHA BANK



ERGO PLANNING



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

Smart Irrigation - A Pathway to Sustainable Intensification

12:15 | Keynote speech - Prof. Raj Khosla

Future of Farming: Big Data, Analytics, Precision Agriculture

13:00 | Round Table

"Governance in Digitized Agriculture"

14:00 —————— Lunch Break ——————

Room 1

15:00 | Session 1.1 | Thematic Area: Decision

1. Development and evaluation of a semi-empirical tire-soil interaction model - Radu Rosca, Petru Călescu, Ioan Tenu

2. Accounting for the uncertainty of weather forecasts in decision support systems used for crop management - Olivier Deudon, Ivana Aleksovska, François Brun, Marc Raynal, Laure Raynaud, Franck Souverain, Robert Faivre

3. Numerical determination of air exchange rate of and inside a naturally ventilated barn depending on incoming wind angle and barn's length/width ratio - E. Moustapha Doumbia, Sabrina Hembel, David Janke, Amon Thomas

4. Towards 5G requirements: Performance evaluation of a simulated WSN using SDN technology - José Olimpio Rodrigues, Gustavo Marques Mostaço, Roberto Fray Silva, Graça Bressan, Carlos Eduardo Cunha, Moacyr Martucci Jr.

5. Integrated information system for robotics applications in agriculture - Ioannis Menexes, Vasileios Kolorizos, Christos Arvanitis, Georgios Banias, Dionysis Bochtis

17:00 —————— Coffee Break ——————

17:30 | Session 1.2 | Thematic Area: Decision

1. Programmable Structure of unified elements for model-based planning and operation of complex agro-environmental processes - Monika Varga, Gergo Gyalog, Janos Raso, Balazs Kucska, Bela Csukas

2. Effect of climate safety-bounds on the energy saving and economic performance of greenhouses - Ido Seginer, Gerrit Van straten, Peter van Beveren

3. Modelling approach applied to milking ejection curves: description of goat milking abilities for milking conditions improvement - Maxime Legris, Mohammed El Jabri, Leila Alaaoui Sosse, Elodie Doutart, Virginie Clément, Pierre Martin, Carole Marinot, Hélène Marissal, Alice Hubert, Jean-Louis Poulet, Renée de Crémoux

4. Bayes and partial least square regression methods for infrared prediction of dairy vat milk casein micelle size - Mohamed EL JABRI, Odile Rolet-Répécau, Marie-Pierre Sanchez, Valérie Wolf, Eric Beuvier, Eric Notz, Nicolas Gaudillière, Cécile Laitthier, Elodie Doutart, Didier Boichard, Agnès Delacroix-Buchet

5. Exploiting Voice Recognition Techniques to Provide Farm and Greenhouse Monitoring for Elderly or Disabled Farmers, over WiFi and LoRa Interfaces - Dimitrios Loukatos, Athanasios Fragkos, Konstantinos G. Arvanitis

6. Dry above ground biomass estimation for a soybean crop using an empirical model in Greece - Christos Vamvakoulias, Stavros Alexandridis, Ioannis Argyrokastritis

19:30 | Poster Session

1. Global sensitivity analysis of inputs and parameters in the leaf wetness model (CART model) - Hui Wang, Jorge A Sánchez Molina, Ming Li, Francisco Rodriguez

2. Analysis of the use of automatic functions of combine harvesters - Dainius Savickas, Povilas Mauza, Martynas Milišauskas, Dainius Steponavičius

3. Design of a Cucumber Growth Prediction Model Based on Environmental Data to be used as Decision Support System Tool - Carlos Amate, Jorge A Sánchez Molina, Luisa Gallardo, Manuel Muñoz, Rodney Thomson

4. Predicting wheat yield and protein content at the plot scale by taking into account varietal and water stress effects with machine-learning and mechanistic models - Fety Nambinina Andrianasolo, Cécile Garcia, Jean-Charles Deswarte

5. IoT-Based APP architecture for Greenhouse Management - Manuel Muñoz Rodriguez, Jorge A. Sanchez Molina, Manuel Torres, Manuel Berenguel

6. An interoperable tool for multicriteria evaluation - Stéphanie Weber, Adélaïde Wissocq

7. Exploring Climate Change Adaptations using Fuzzy Cognitive Maps: The Case of Sundarbans, India - Pramod K. Singh, Konstantinos Papageorgiou, Harpal Singh Chudasama, Elpiniki Papageorgiou

8. Pig Grading Information System (PIGIS) - Erica Chisholm, Mark Browne, Mark Hawe

9. Exploring owa Operators For Aggregating Fuzzy Cognitive Maps Constructed by Experts/Stakeholders in Agriculture - Konstantinos Papageorgiou, Elpiniki Papageorgiou, Asmaa Mouhrik, George Stamoulis

20:30 | Welcome Dinner

End Day 1

Day 2 - Friday, 28 June 2019

Room 1

09:30 | Session 1.3 | Thematic Area: Cross-Cutting

1. Evolution of business models in European agriculture - Giacomo Carli, Maria Rita Tagliaventi, Marco Medici

2. Environmental Impact of Precision Agriculture - Marco Medici, Søren Marcus Pedersen, Giacomo Carli, Maria Rita Tagliaventi

3. The Management and Efficiency Evaluation of Rural Areas with Artificial Intelligence - Mei Ling Yeh, Yang Tien Hsu, Tien Yin Chou, Chih Wei Kuan

4. Connecting Greek Traditional Music and Cultural Heritage with Agroenvironmental Sustainability through Geospatial Technologies - Avraam Mavridis

5. FAIRshare - Enabling the farm adviser community to prepare farmers for the digital age - Kevin Connolly, Tom Kelly

6. Opportunities, risks and obstacles to the implementation of digitization technologies in German agriculture - Jana Rosa Munz, Nicola Gindel, Reiner Doluschitz

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 - Yeewoon Park, Gil-Um Eom, Doheon Lee, Junghoon Moon

2. Use of electronic identification and new technologies on European Sheep farms - Jean-Marc Gautier, Claire Morgan Davies, Tim Keady, Alan Bohan, Gilles Lagriffoul, Sezen Ocak, Ignacia Beltran Dominguez, Antonello Carta, Pauline Rivallant, Dominique Francois, Dinu Gavordian

3. Achievement of critical mass on the example of the German mobile crop advisory app Plantix - Anna Iversen

4. Analysis of ICT usage of the Hungarian fruit and vegetable processing enterprises - Szilvia Botos, László Váraljai, Róbert Szilágyi, Gergely Ráthonyi, János Felföldi

5. How blockchain can change firm's cost structure and supply chain integration - Marco Medici

6. Legal and policy framework analysis on bio-waste management for the promotion of circular economy - Charisios Achillas, Christos Vlachokostas, Alexandra Michalidou, Eleni Feleki, Nicolas Moussiopoulos

14:00 —————— Lunch Break ——————

15:00 | Session 1.5 | Thematic Area: Cross-Cutting

1. Development of a Brazilian Digital Platform on "Foods and Territories" - Edson Luis Bolfe, Denis Sautier, João Flávio Saito

2. Online Fresh Sales in Korea: Mobile vs. PC, and Retail vs. Direct Sales - Haram Eom, Junghoon Moon

3. Intelligent Conversational Agent Integration to a Social Media Platform for controlling IoT devices in Smart Agriculture Facilities - Eleni Symeonaki, Konstantinos Arvanitis, Panagiota Papageorgas, Dimitrios Piromalis

4. The role of gamification in sustainable agricultural higher education - Tamás Kovács, Róbert Szilágyi, László Váraljai

5. Introduction of young professionals for agricultural development - Monika Varga

6. Innovative agribusiness in Greece - Athanasios C Gertsis, Avraam Mavridis, Maro Vlahopoulou

17:00 —————— Coffee Break ——————

17:30 | Session 1.6 | Thematic Area: Decision

1. Measurement of income risk as benchmarking tool for dairy farms - Gašper Petelin, Jaka Žgajnar

2. Definition of reference models for functional parameters and price for combine harvester - Tatjana Petarević, Ivana Aleksovska, Samuele Trestini, Luigi Sartori, Francesco Marinello

3. What information systems are used by food businesses in Western Greece? - Bill Mitsos, Axilleas Kontogeorgos, Grigoris Beligiannis

4. Water Use efficiency in a high density olive grove: irrigation and olive quality aspects - Athanasios C Gertsis, Gregory Yiannakis

5. Identification of requirements for implementing IOT on the smart seed value chain - Gustavo Marques Mostaço, Roberto Fray Silva, Carlos Eduardo Cunha, Moacyr Martucci Jr.

6. New Trends in Modelling and Simulation for Sustainable Food Supply Chains: A Review - Lampros Stergioulas, Masoud Fakhimi

14:00 —————— Lunch Break ——————

15:00 | Session 1.9 | Thematic Area: Decision

1. Proactive auditing: towards a certification scheme that is supported by a standard transparency system - Ayalew Kassahun, Georg Schwerling, Nicolas Becker, Sebastian Schmittner, Sabine Kläser, Tim Bartram

2. Assessing the efficiency of arable crops production in a cross-national context - Spyros Ntavias, Christina Kleisiari, Leonidas Karampelos

3. Design of a Cucumber Growth Prediction Model Based on Environmental Data to be used as Decision Support System Tool - Carlos Amate, Jorge A Sánchez Molina, Luisa Gallardo, Manuel Muñoz, Rodney Thomson

4. Metal vibration noise eliminator for aerial propagation sound event detection system in an experimental pigpen - Ikuo Watanabe, Misaki Mito, Koichi Mizutani, Keiichi Zempo, Naoto Wakatsuki, Tadashi Ebihara, Nobuhiko Saito

5. Automatic discrimination of dietary behavior of swine under flu infection by vision based area segmentation - Takuwa Sato, Misaki Mito, Koichi Mizutani, Keiichi Zempo, Naoto Wakatsuki, Yuki Maeda, Takehiko Saito

6. Innovative agribusiness in Greece - Avraam Mavridis, Maro Vlahopoulou

17:00 —————— Coffee Break ——————

17:30 | Session 1.10 | Thematic Area: Action

1. SYSTEMER®, a computer tool for evaluating cropping systems and designing innovative and multi-performance alternatives - Stephanie Weber, Francis Remy Duval

2. Performance evaluation of hydraulic parameters of a developed drip irrigation system - Olowunmiye, Eric Omofunmi, Oluwaseun Aiyedoye, Tolulope Oluwalana, Mónica D'Alicandro

3. Real-time monitoring and sensing systems for greenhouses at low cost - Rafael Guillermo Vargas Solis

4. Development of Agriculture linkage with Bioeconomy - Kakha Nadiradze, Nana Phirosmanashvili, Mariam Goginashvili

5. Farm-to-Fork Traceability: Blockchain meets Agri-Food Supply Chain - Magdalena Stefanova, Michael Salampasis

6. A concept note on a blockchain system for dairying estates - Giorgos Vasileiadis, Dimitrios Kateris, Dionysis Bochtis

14:00 —————— Lunch Break ——————

15:00 | Session 1.5 | Thematic Area: Action

1. A New Graph-Theoretic Approach for Analyzing Soil Microbiomes - Suyeon Kim, Ishwori Thapa, Hesham Ali

2. Application possibilities of IoT based management systems in agriculture - Mihály Tóth, János Felföldi, László Váraljai, Róbert Szilágyi

3. Short-term climate prediction model for management of agricultural environment - Jose Luis Vasquez, Carlos Manuel Travieso, Jesús Bernardo Alonso

4. Farming 4.0: Digital Agricultural Twins for Water Stewardship - Naoum Tsolakou, Reza Pourmoayed, Claus Grön

5. Algorithm for the calculation of tree crops' CO2 Removal Capacity - Ioannis Spanos, Andreas I. Sotiropoulos, Petros A. Roussos, Serko A. Miminis

6. Design of a Cucumber Growth Prediction Model Based on Environmental Data to be used as Decision Support System Tool - Carlos Amate, Jorge A Sánchez Molina, Luisa Gallardo, Manuel Muñoz, Rodney Thomson

17:00 —————— Coffee Break ——————

17:30 | Session 1.6 | Thematic Area: Action

1. Measurement of income risk as benchmarking tool for dairy farms - Gašper Petelin, Jaka Žgajnar

2. Definition of reference models for functional parameters and price for combine harvester - Tatjana Petarević, Ivana Aleksovska, Samuele Trestini, Luigi Sartori, Francesco Marinello

3. What information systems are used by food businesses in Western Greece? - Bill Mitsos, Axilleas Kontogeorgos, Grigoris Beligiannis

4. Water Use efficiency in a high density olive grove: irrigation and olive quality aspects - Athanasios C Gertsis, Gregory Yiannakis

5. Identification of requirements for implementing IOT on the smart seed value chain - Gustavo Marques Mostaço, Roberto Fray Silva, Carlos Eduardo Cunha, Moacyr Martucci Jr.

6. New Trends in Modelling and Simulation for Sustainable Food Supply Chains: A Review - Lampros Stergioulas, Masoud Fakhimi

14:00 —————— Lunch Break ——————

15:00 | Session 1.9 | Thematic Area: Action

1. SYSTEMER®, a computer tool for evaluating cropping systems and designing innovative and multi-performance alternatives - Stephanie Weber, Francis Remy Duval

2. Performance evaluation of hydraulic parameters of a developed drip irrigation system - Olowunmiye, Eric Omofunmi, Oluwaseun Aiyedoye, Tolulope Oluwalana, Mónica D'Alicandro

3. Real-time monitoring and sensing systems for greenhouses at low cost - Rafael Guillermo Vargas Solis

4. Development of Agriculture linkage with Bioeconomy - Kakha Nadiradze, Nana Phirosmanashvili, Mariam Goginashvili

5. Farm-to-Fork Traceability: Blockchain meets Agri-Food Supply Chain - Magdalena Stefanova, Michael Salampasis

6. A concept note on a blockchain system for dairying estates - Giorgos Vasileiadis, Dimitrios Kateris, Dionysis Bochtis

17:00 —————— Coffee Break ——————

17:30 | Session 1.10 | Thematic Area: Action

1. SYSTERRE®, a computer tool for evaluating cropping systems and designing innovative and multi-performance alternatives - Stephanie Weber, Francis Remy Duval