









Ajaji

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Bala Jahun Gambo

Cristina Tortia, Paolo Gay

Day 1 - Monday, 24 June 2019

| Registration - Welcome Coffee

Prof. Pietro Catania - Prof. Claus Grøn Sørensen - Prof. Dionysis Bochtis

11:00 | Conference Opening - Welcome Note

12:00 | Keynote speech - Prof. Avital Bechar

Agricultural Robotics - Dealing With High Variances in Agricultural

12:45 | Keynote speech - Prof. Simon Pearson

A route map to robotic deployment in Agriculture

- 13:30 **-**Lunch Break

Potential of agroforestry as forest landscape restoration tool to solve Su-Nasradeen A. H. Gadallah, N. A. Adewole, D. D.

dan forest cover loss cum food security in Sennar and Gedaref States Effects of noise on mulching oil palm fusing tractor mounted mulcher

15:00 | Session 1 | Thematic Area: Production | Chairman: Remigio Berruto

blades Enhanced visual odometry algorithm for unmanned vehicles in protected crops

scale timber harvesting in South Africa Modelling labour time requirements of two dock control procedures in organic farming: manual digging and hot-water control

Further development and assessment of and extraction system for small-

3D Visualsiation of Big Data for Precision Farming

- 16:30 · Coffee Break

17:00 | Session 2 | Thematic Area: Sustainability | Chairman: Claus G. Sørensen

Water Pretreatment Who buys organic eggs? Sediment wattle configuration and optimization of passive polymer applica-

Monitoring of thermal and hydric regime of soils from the Transilvanian

Natural Buffer Effect on Biohydrogen Production using Hot Compressed

Plain (Romania), during 2008-2017, and predict tendency in the evolution

tion for turbidity reduction In channelized runoff Effect of different tillage on soil sustainability under semi-arid Mediterranean conditions

18:30 | Session 3 | Thematic Area: Sustainability | Chairman: Heinz Bernhardt

Miftahul Choiron, Seishu Tojo, Tadashi Chosa

Rusu Teodor, Bogdan Ileana, Moraru Paula

Calvin B. Sawyer, Charles V. Privette, William C. Bridges, James W. Berry. III

Zeliha Bereket Barut, Ismail Celik

Martin Höhendinger, Manfred Höld, Omar Hijazi, CowEnergy - Possibilities of energy management in energy self-sufficient

dairy cowsheds Characterization of particulate matter emissions during manure applica-

Biogas production from pistachio (Pistacia vera L.) de-hulling waste

Estimating Arsenic Concentration using MLR and ANN Model

Intelligent Greenhouses to Reduce Environmental Imprint

national strategies

Current status of bio-based circular economy penetration in European

End of Day 1

Precision weed management in vegetables utilizing artificial Intelligence

Sound velocity estimation of spread spectrum sound positioning system in

Maximilian Treiber, Josef Bauerdick, Lorenz Frech, Reinhard Dietrich, Hans Jürgen Krieg, Jörn

Stumpenhausen, Heinz Bernhardt

Steffen Münch, Thomas Amon Angeliki Kavga, Manolis Souliotis, George Arampatzis, Spiros Papaefthimiou Charisios Achillas, Apostolos Malamakis, Stamatia Kontogianni, Sofia-Natalia Boemi, Chrysanthi

10:30 | Session 4 | Thematic Area: Production | Chairman: Alessandro Sopegno

greenhouse

rally ventilated barn

- 13:30 **-**

16:30 -

science and teaching

man Dairy Farming Environments

Temporal Workload on Family Farms

feared Short Wave Infrared Soil Spectroscopy

19:30 | Welcome Dinner

Darius Jovarauskas, Dainius Steponavičius, Energy assessment of spring wheat production under conventional and

Lunch Break

Coffee Break

precision farming Suming Chen, Kuo-Chih Tung, Chao-Yin Tsai, I-

Intelligent sensing of crop growth status for greenhouse production

Development of an easy to use drone remote sensing and image analyzing pipeline for field phenotyping

Agroecological efficiency of precision fertilizer application systems in the

North-West of the Russian Federation **—** 12:00 **–** Coffee Break

12:30 | Session 5 | Thematic Area: Sustainability | Chairman: Pietro Catania

Development of automatic precision fodder concentrates feeding system

Prediction of the local air exchange rate in animal occupied zones of a natu-

for goat Sustainable livestock production by ensuring optimal working conditions

and processes through the use of automated systems

The capabilities of people with disabilities

Manure happens: An investigation of emission abatement opportunities

Image classification for anthracnose infected walnut tree canopies

15:00 | Session 6 | Thematic Area: Ergonomics | Chairman: Katja Heitkamper

David Janke, Amon Thomas Barbara Amon, Sajeev Erangu Purath Mohan-

Dionysis Bochtis

Gavriela Asiminari, Elpiniki Papageorgiou,

Masakazu Komatsuzaki

farms Instruction and teaching in vocational trainings for farmers

Ergonomics of community farming for elderly and challenged people

Requirements for automatic feeding systems in southern German dairy

Large-scale Point-cloud based Global Mapping for Orchard Operations

17:00 | Session 7 | Thematic Area: Cross-cutting Themes | Chairman: Giorgos Vasileiadis Smart Farming and Digitization of research farms – a holistic concept for

Data Transmission and Management for Wireless Sensor Networks in Ger-

Josef Johannes Bauerdick, Maximilian Treiber,

Maximilian Treiber, Martin Höhendinger, Har-

ald Rupp, Josef Bauerdick, Omar Hijazi, Heinz

Dimitrios Loukatos, George Tzaninis, Konstan-

tinos G. Arvanitis, Nikolaos Armonis Alessandro Sopegno, Remigio Berruto,

Theodora Angelopoulou, Athanasios

Balafoutis, George Zalidis, Dionysis Bochtis

Investigating Ways to Develop and Control a Multi Purpose and Low Cost Agricultural Robotic Vehicle, under Scale APIS: App to Evaluate Agricultural Machine Use and Operation Cost

18:30 | Poster Session The impact of Common Agricultural Policy provisions on sustainable farm-

Soil Organic Carbon Estimation with the Use of Proximal Visible Near In-

stem raising mechanism Manufacturing and performance test of a prototype for fresh corn harvest-

Analysis of design factors for soil disinfection machine

19:30 | Gala Dinner

19:30

12:00

platform conveyors

15:00 | **Session 10**

Development of a blast-type onion stem crusher for investigation the onion

The assessment of plant protection equipment in Calabrian citrus orchards

10:30 | Session 8 | Thematic Area: Production | Chairman: Yiannis Ampatzidis

Evaluating the Suitability of Balanites aegyptiaca and Khaya senega-

lensis Seed oils as Renewable Energy Source for Biodiesel Production.

mance and nutrient utilization of Catfish (Clarias gariepinus)

An evaluation of the socio-economic sustainability of Italian olive growing. Mapping Chardonnay vineyard yield by GPS application

Effect of extrusion conditions on the throughput of extruder for the production of pineapple pomace based fish feed Effect of extruded plantain peel based fish feed diet on growth perfor-

End of Day 2

Influence of grape pressing conditions on white wines quality Spatial optimization for orchards in complex field areas

lings for small conservation systems Learning motion parameters for a Mejdool-date thinning robot Work study, outputs and apple quality using integrated harvest

Equipment development to terminate cover crops and transplant seed-

Interface design of the machine for oak seed scarification

ronments. Lunch Break **-** 13:30 **-**

Combined UGV and UAV perception of field areas as operational envi-

Sustainable production systems of legumes in South Europe: How feasible is the substitution of imported soybeans and soy meal? Deep learning technique for classification of candied orange peel

Current status of bio-based circular economy penetration in European national strategies

Effect of moisture content on the nutritional and antiOnutritional com-

positions of the bush mango (Irvingia gabonensis) kernel

The role of using bioalcohol fuels in sustainable development

17:00 | Session 11 | Thematic Area: Sustainability | Chairman: Charis Achillas

products made with and without animal manure Ammonia volatilization and evaporation losses during irrigation of liquid

Assessing Agricultural Sustainability Within a Farm Management Information System: A Review of Indicators

Roy Latsch, Ruedi Stark Karel Charvat, Karel Jedlicka

Shahzad Zaman, Lorenzo Comba, Alessandro

Biglia, Davide Ricauda Aimonino, Paolo Barge,

Clayton Prowse, Jeff Smithers, Simon Acker-

Ioana, Pop Adrian Ioan

Michael Vassalos, Marzieh Motallebi

Goksel Demirer

Majeed Safa, Nazanin Mansouri, Daniel O'Carroll

Tina Kabelitz, Christian Ammon, Ulrich Nübel, Nadine Thiel, Uwe Rösler, Paul Siller, Roger Funk,

Kiskini, Eleni Feleki, Christos Vlachokostas, Nicolas Moussiopoulos

Day 2 - Tuesday, 25 June 2019

Lok Wai Jacky Tsay, Zichen Huang, Xunyue Zhao, Tomoo Shiigi, Tetsuhito Suzuki, Naoshi Kondo

Yiannis Ampatzidis, Victor Partel

Remigijus Zinkevičius

Chang Yang

Masayuki Hirafuji, Seishi Ninomiya Nadezhda Tcyganova, Aleksei Ivanov

Wei Guo, Léa Tresch, Yue Mu, Atsushi Itoh,

Yi-Chich Chiu, Wei-Chih Tsai

Stefanie Reith, Mathias Funk, Jürgen Frisch

E. Moustapha Doumbia, Sabrina Hempel,

kumar, Wilfried Winiwarter Athanasios Anagnostis, Georgios Dolias,

> Sophie Kathrin Schaffernicht, Karl Moder, Elisabeth Quendler

Fredrik Regler, Matthias Reger, Rosemarie Oberschätzl-Kopp, Jörn Stumpenhausen,

Astrid Seltrecht Dimitrios Katikaridis, Vasileios Moisiadis, **Dionysis Bochtis**

Heinz Bernhardt

Heinz Bernhardt

Patrizia Busato

Youngtae Yun

Katja Heitkämper, Ruedi Stark

Samir Mili

Ilsu Choi, Narae Kang, Wonjae Lee, Youngkeun Kim, Jeakeun Woo, Changsik Hyun, Sungkook Kim

Sanghee Lee, Je Lim, Taegyoung Kang, Jingu Kim, Yong Choi, Youngkeun Kim, Ilsu Choi,

Youngkeun Kim, Wonjae Lee, Narae Kang,

Ilsoo Choi, Jeakeun Woo, Changsik Hyun,

Changsik Hyun, Hyunjong Jun, Seunghwa Yu, Jaekeun Woo Teodora Stillitano, Nathalie Iofrida, Giacomo Falcone, Giovanni Gulisano, Alfio Strano, Bruno Francesco Nicolò, Anna Irene De Luca Mariangela Vallone, Pietro Catania

Souraya Benalia, Laura Violi, Pasquale Barre-

ca, Giuseppe Zimbalatti, Bruno Bernardi

Day 3 - Wednesday, 26 June 2019 Oluwafemi Babatunde Oduntan, Adeleke Isaac

Abosede Oluwakemi Oduntan, Oluwafemi Baba-

Danladi Drambi Usman, Bala Gambo Jahun, Mo-

Giorgos Vasileiadis, Vasileios Moysiadis, Ioannis

Menexes, Dimitrios Kateris, Dionysis Bochtis

tunde Oduntan, Rotimi Abraham Ogunmokun

hammer Hilal Kabir, James Debra

Pietro Catania, Mariangela Vallone

Bamgboye

Tadeusz Juliszewski

Ted S Kornecki

Coffee Break 12:30 | Session 9 | Thematic Area: Ergonomics | Chairman: Tadeusz Juliszewski

> Yechezkely, Zait Shimon Vasileios Moysiadis, Dimitrios Katikaridis, Georgos Vasileiadis, Dionysis Bochtis

Or Bar-Shira, Yosef Cohen, Tal Shaubi, Avi Sa-

Yael Salzer, Amos Naor, Eyal Yonai, Yehoshua

dowky, Yuval Cohen, Avital Bechar, Sigal Berman

Thematic Area: Agri-Chains | Chairman: Dimitrios Aidonis Spyros Niavis, Christina Kleisiari, Leonidas Kyrgiakos, George Vlontzos Paolo Barge, Alessandro Biglia, Lorenzo Comba,

Davide Ricauda Aimonino, Cristina Tortia, Paolo

Róbert Magda, Sándor Szlovák, Judit Tóth

Akindele Folarin Alonge, Peace M Uboh, Edidiong J Bassey Charisios Achillas, Apostolos Malamakis, Stamatia

Kontogianni, Sofia-Natalia Boemi, Chrysanthi

Patrizia Busato, Alessandro Sopegno,

Kiskini, Eleni Feleki, Christos Vlachokostas, Nicolas

Omar Hijazi, Sonja Mettenleiter, Josef Bau-

erdick, Maximilian Treiber, Anja Gräff, Heinz

John Perkins Chastain John Perkins Chastain

Moussiopoulos

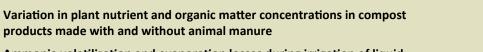
Remigio Berruto

Bernhardt



HELLENIC





animal manure

Maria Lampridi, Dionysis Bochtis





Logistic Benefits of Innovative Scenarios for Fresh Meat Distribution

16:30 -Coffee Break

18:30 ı End of Day 3

> **AMERICAN FARM SCHOOL**

AARHUS UNIVERSITY

Sustainability of biogas production with small sized plant in South America

INTERNATIONAL

Thessaloniki · Greece