



XL CIOSTA
& CIGR SECTION V
 INTERNATIONAL CONFERENCE

Monday, 11 st September 2023 – Anf.131 – Évora University C.E.S Building	
8:00	Registration / Conference Office
9:00	Conference Opening Ceremony
9:30	Keynote Lecture – “Digitalization and the Green Transition” – Prof. Claus Sorensen
10:15	Keynote Lecture – “Current trends and challenges in agriculture and their effects on safety and health in agricultural work” – Dr. Ana Paula Rosa
11:00	Coffee Break
<u>Special Session: NEGHTRA Project</u>	
11:30	NEGHTRA Project - Next Generation Training on Intelligent Greenhouses Y. E. Troulis TTMI Consulting Ltd., Greece
<u>Scientific Session 1.</u> EDUCATION IN AGRICULTURE <i>Chair: Fátima Baptista</i>	
12:00	[8679] Using Microgreen Production to Demonstrate Plant Propagation Techniques for Agriscience Teacher Professional Development C. A. DiBenedetto Clemson University, United States of America
12:10	[8640] Analysis of feeding operations when using a self-propelled automatic feeding system (AFS) Q. Elisabeth University of Natural Ressources and Life Sciences, Austria
12:20	[8680] Mechanization levels on farms for labour analyses K. Heitkämper Agroscope, Switzerland
12:30	Q&A Discussion
12:45	Lunch Break
<u>Special Session: INOVCIRCOLIVE Project</u>	
14:00	INOVCIRCOLIVE Project – Inovation and Circularity in the Olive Oil Chain V. Fitas da Cruz Évora University, Portugal

<u>Scientific Session 2.</u> SUSTAINABLE FARMING <i>Chair: Jairo Osorio</i>	
14:30	[8663] Benefits of Adding Composted Poultry Litter to Soilless Potting Media for the Production of Woody Ornamentals J. P. Chastain Clemson University, United States of America
14:40	[8487] Improving monitoring of broiler production through an early warning system employing low-cost environmental network in tropical climates J. A. O. Saraz National University of Colombia, Colombia
14:50	[8583] Sustainable production in Almería solar greenhouses increasing photosynthetic activity by passive climate controls systems M. M. Teruel University of Almería, Spain
15:00	[8549] Preliminary study on the quantification of animal manure production in Portugal D. Coelho Évora University, Portugal
15:10	[8676] Microgreen Nutrition Within Light Treatments and Shelf-Life Analysis to Demonstrate Seed Germination and Plant Propagation Techniques C. A. DiBenedetto Clemson University, United States of America
15:20	[8525] Autonomous Ground Vehicle: Environmental Impacts Assessment G. Todde University of Sassari, Italy
15:30	[8346] Evaluating the Implementation of Outgrower Farming Scheme on Sugarcane Production and Farmers' Livelihoods in Wonji Shoa Sugar Estate, A. M. Olaniyan Federal University Oye-Ekiti, Nigeria
15:40	Q&A Discussion
16:00	Coffee Break
POSTER PRESENTATION 1. <i>Chair: José Carlos Barbosa</i>	
16:30 - 17:30	[8582] Innovative cultivation of aloe vera in advanced technological greenhouse systems A. Kavga University of Patras, Greece [8506] Limited ammonia emission by inventive manure cellar ventilation and chemical air scrubber H. Schiricke EnviVice, Netherlands

	<p>[8471] Use of malt bargasse in ceramic material D. Cecchin Federal Fluminense University, Brazil</p> <p>[8473] Production and value chains of aloysia triphylla in portugal C. Huther Federal Fluminense University, Brazil</p> <p>[8587] Carbon neutrality on agriculture: case studies M. Caldinhas Évora University, Portugal</p> <p>[8398] Case study of a photovoltaic system installed in rural areas in southern Brazil including the effects of the covid-19 pandemic M. Esposito Federal University of Fronteira Sul Campus Erechim, Brazil</p> <p>[8002] Sustainable management of agricultural livestock surpluses: the living lab approach V. F. Cruz Évora University, Portugal</p> <p>[8004] Agronomic valuation of wet bagasseolives through the composting process, in a circular optic J. Guerreiro Évora University, Portugal</p> <p>[8677] Safety and maintenance conditions in tractors and agricultural machinery - a case study in alentejo L. A. Conceição Polytechnic Institute of Portalegre, Portugal</p> <p>[8472] RNA extraction and reconstruction of emetin and cephalin metabolic pathways in carapichea ipecacuanha C. Huther Federal Fluminense University, Brazil</p> <p>[8682] Working Conditions on Goat Farms in the Northeastern Trás-os-Montes (Portugal): From the Past to the Current Situation J. C. Barbosa Instituto Politécnico de Bragança, Portugal</p> <p>[8001] Tango-circular: training project in circular economy for the new generation of farmers and agricultural entrepreneurs F. Baptista Évora University, Portugal</p>
17:30	City Tour
19:30	Welcome Reception – Évora University C.L.A.V. Building

Tuesday, 12 nd September 2023	
<u>Special Session: CIGR Working Group Animal Housing in Hot Climate</u>	
09:00	Special Session: CIGR Working Group Animal Housing in Hot Climate V. Fitas da Cruz Évora University, Portugal
<u>Scientific Session 3.</u> PRECISION LIVESTOCK FARMING <i>Chair: Irenilza Naas</i>	
09:30	[8517] A survey of pig and poultry farmers' readiness and attitudes towards smart technologies I. Tikasz AKI Institute of Agricultural Economics, Hungary
09:40	[8518] Conditions of applying advanced information technologies in livestock farming I. Tikasz AKI Institute of Agricultural Economics, Hungary
9:50	[8464] Influence of thermal stress on feeding behaviour of growing-finishing pigs: A Preliminary Study J. C. Rico Évora University, Portugal
10:00	[8570] Studying Dairy Farmers' Needs and Feedback toward Augmented Reality Systems G. Sara University of Sassari, Italy
10:10	[8488] Assessment of weight loss on pigs in pre-fattening stage in function of temperature and humidity index (THI) using low-cost sensor network V. G. Cadavid Universidad Nacional de Colombia, Colombia
10:10	[8348] Study of the individual information collection system for weaner pigs Y. Chiu National Ilan University, Taiwan
10:20	[8344] Designing a Solar-Powered Water-Conserving Evaporative Cooling System including Fabrication and Testing of Prototype A. M. Olaniyan Federal University Oye-Ekiti, Nigeria
10:30	Q&A Discussion
10.50	Coffee Break
<u>Special Session: QuantiFarm Project</u>	
11:20	Presentation and Interaction with the QuantiFarm Project Caroline van der Weerdt TNO Innovation for Life, Netherlands

<p align="center"><u>Scientific Session 4.</u></p> <p align="center">DIGITALIZATION AND PRECISION AGRICULTURE</p> <p align="center"><i>Chair: José Rafael Silva</i></p>	
12:00	<p>[8673] Smart tools change workflows and required time for grazing management</p> <p>L. Hart University of Hohenheim, Germany</p>
12:10	<p>[8479] Processing Corn Silage Yield Data from Forage Harvesters</p> <p>J. B. Lema University of Santiago de Compostela, Spain</p>
12:20	<p>[8669] Application of Artificial Neural Network and Genetic Algorithm for the Prediction of Grain Loss in a Medium-sized Combine Harvester</p> <p>N. B. M. Nawi University Putra Malaysia, Malaysia</p>
12:30	<p>[8667] Image analysis of Hedge Almond Orchard to monitor flowering – an account of four years</p> <p>I. L. Dias Évora University, Portugal</p>
12:40	<p>[8490] Effects on ammonia emission of dairy stables by implementing an hourly Dutch measurement and calculation method</p> <p>H. Schiricke EnviVice, Netherlands</p>
12:50	<p>[8664] Design of an Application for Analyzing the Progression of Musculoskeletal Diseases in Slaughterhouses</p> <p>I. A. Naas Paulista University, Brazil</p>
13:00	<p>[8335] Digital Agriculture: The Future Agriculture for Sustainable Food Security</p> <p>B. Alabadan Federal University Oye-Ekiti, Nigeria</p>
13:10	Q&A Discussion
13:30	Lunch Break
<p align="center"><u>Special Session: Mediterranean Institute for Agriculture, Environment and Development (MED)</u></p>	
15:00	<p>Mediterranean Institute for Agriculture, Environment and Development (MED) Presentation</p> <p>F. Baptista Mediterranean Institute for Agriculture, Environment and Development (MED), Évora University, Portugal</p>

POSTER PRESENTATION 2.

Chair: Adélia Sousa

15:30

[8508] Use of marine macroalgae extracts to protect corn crop from water stress

F. L. Macedo
Madeira University, Portugal

[8514] Spatial distribution of bed variables and animal welfare indicators in different typologies of compost-bedded pack barn

R. R. Andrade
Federal University of Goiás, Brazil

[8675] Development and validation of a real-time monitoring system of the thermal environment for animal production facilities

R. R. Andrade
Federal University of Goiás, Brazil

[8571] Validation of a real-time location system for dairy farms. A case study

J. Bueno
University of Santiago de Compostela, Spain

[8470] Enhancement of land-use capacity of rural properties based on geoprocessing techniques

D. Cecchin
Fluminense Federal University, Brazil

[8590] Application of drone with multispectral camera in olive grove to assess plant health

P. Catania
University of Palermo, Italy

[8591] Vineyard monitoring with uav to extract vegetation indices

M. Vallone
University of Palermo, Italy

[8382] Mapping of coffee ripeness spatiotemporal variability using uav imagery

F. A. C. Pinto
Federal University of Viçosa, Brazil

[8376] Response surface approach to mathematical modeling and optimisation of airflow resistance for jatropha seeds

E. Okpenge,
Federal University of Agriculture Makurdi

[8477] Performance of machine learning algorithms for forest species classification using WorldView-3 data in the Southern Alentejo region

A. C. Gonçalves
Évora University, Portugal

[8678] Effect of the combination of double roof and increased natural ventilation area on the development of fungal diseases in a greenhouse cucumber crop

M. M. Teruel
University of Almería, Spain

16:30	Coffee Break
17:00	Conference Closing Ceremony
17:30	CIOSTA GENERAL ASSEMBLY CIGR SECTION V Meeting
20:00	CONFERENCE DINNER - Typical Restaurant “Guião”, Évora City Center

Wednesday, 13 rd September 2023	
08:30 – 18:30	<p>TECHNICAL TOUR – Bus Departure from the Parking of GALP Gas Station located at Portas do Raimundo</p> <ul style="list-style-type: none"> • Precision Agriculture and Digitalization in a Sustainable Mediterranean Farm – Santa Vitória • Lunch in the city of Moura • EDIA Multipurpose Project: Alqueva Dam