

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 Resources 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

Scientific Session 2. 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	[8594] 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	[8582] Innovative cultivation of aloe vera in advanced technological greenhouse systems A. Kavga University of Patras, Greece
17:30	[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> <p>[8535] Comparative environmental analysis of the valorisation of pruning waste from the wine industry R. Simões Polytechnic Institute of Cavado and Ave (IPCA), Portugal</p>
16:30 -	
17:30	<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> <p>[8535] Comparative environmental analysis of the valorisation of pruning waste from the wine industry R. Simões Polytechnic Institute of Cavado and Ave (IPCA), Portugal</p>
17:30	City Tour
19:30	Welcome Reception – Évora University C.L.A.V. Building

Tuesday, 12nd September 2023

Special Session: CIGR Working Group Animal Housing in Hot Climate

09:00

Special Session: CIGR Working Group Animal Housing in Hot Climate
V. Fitas da Cruz
Évora University, Portugal

Scientific Session 3.

PRECISION LIVESTOCK FARMING

Chair: Irenilza Naas

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

Special Session: QuantiFarm Project

11:20

Presentation and Interaction with the QuantiFarm Project

Caroline van der Weerd
TNO Innovation for Life, Netherlands

Scientific Session 4.

DIGITALIZATION AND PRECISION AGRICULTURE

Chair: José Rafael Silva

12:00

[8673] Smart tools change workflows and required time for grazing management

L. Hart
University of Hohenheim, Germany

12:10

[8479] Processing Corn Silage Yield Data from Forage Harvesters

J. B. Lema
University of Santiago de Compostela, Spain

12:20

[8669] Application of Artificial Neural Network and Genetic Algorithm for the Prediction of Grain Loss in a Medium-sized Combine Harvester

N. B. M. Nawi
University Putra Malaysia, Malaysia

12:30

[8681] The Role and Importance of Digital Transition in Portuguese Agriculture Sector

L. A. Conceição
Polytechnic Institute of Portalegre, Portugal

12:40

[8667] Image analysis of Hedge Almond Orchard to monitor flowering – an account of four years

I. L. Dias
Évora University, Portugal

12:50

[8490] Effects on ammonia emission of dairy stables by implementing an hourly Dutch measurement and calculation method

H. Schiricke
EnviVice, Netherlands

13:00

[8664] Design of an Application for Analyzing the Progression of Musculoskeletal Diseases in Slaughterhouses

I. A. Naas
Paulista University, Brazil

13:10

[8335] Digital Agriculture: The Future Agriculture for Sustainable Food Security

B. Alabandan
Federal University Oye-Ekiti, Nigeria

13.20

Q&A Discussion

13:30

Lunch Break

Special Session: Mediterranean Institute for Agriculture, Environment and Development (MED)

15:00

**Mediterranean Institute for Agriculture, Environment and Development (MED)
Presentation**

F. Baptista

Mediterranean Institute for Agriculture, Environment and Development (MED), Évora University, Portugal

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 jatropa seeds

E. Okpenge,

Federal University of Agriculture Makurdi

	<p>[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</p> <p>[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</p> <p>[8601] Multispectral and hyperspectral sensors application to evaluate canopy variability in olive tree plants S. Orlando University of Palermo, Italy</p>
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, 13rd 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