

HAICTA 2022

CONFERENCE
PROGRAMME



10th International Conference on ICT in Agriculture, Food & Environment



2022.haicta.gr

22-25
September

CROWNE PLAZA ATHENS CITY CENTRE

50 Michalakopoulou Avenue, Athens, Greece

Golden Sponsor

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*O is for Oral presentation; T is for Teleconference presentation

14:00 Registrations

DOCTORAL CONSORTIUM SESSION

Chair: George Vlontzos

- | | | | |
|---|-------|--|---|
| 1 | 15:00 | <p>Value chain analysis of a cheese with Geographical Indication
 <i>Maria Spilioti, Pavlos Karanikolas, Spiros Stachtiaris, Antonios Kominakis and Konstantinos Tsiboukas</i></p> | O |
| 2 | 15:10 | <p>Could digital technologies lead to improved lameness detection on dairy farms?
 <i>Sarah Hertle, Isabella Lorenzini, Sophia Sauter and Bernhard Haidn</i></p> | O |
| 3 | 15:20 | <p>Recommending a strategy for the transition towards circular economy based on the views of environmental students
 <i>Evangelia Karasmanaki, Eleni Lymperidou, Konstantinos Bletsas, Achilleas Kontogeorgos and Georgios Tsantopoulos</i></p> | T |
| 4 | 15:30 | <p>An investigation on Greek Agricultural Cooperatives' Services. What is missing?
 <i>Evangelia Karasmanaki, Panagiota Dimopoulou, Achilleas Kontogeorgos and Georgios Tsantopoulos</i></p> | T |
| 5 | 15:40 | <p>Social Media Marketing in Greek Winery: Evidence from Facebook
 <i>Effrosyni Bitakou, Sotiris Karetzos, Constantina Costopoulou and Maria Ntaliani</i></p> | O |
| 6 | 15:50 | <p>Exploring the Benefits of Circular Bioeconomy in Agricultural: A Systematic Literature Review
 <i>Christina-Ioanna Papadopoulou, Fotios Chatzitheodoridis and Efstratios Loizou</i></p> | T |
| 7 | 16:00 | <p>Sentiment Analysis in Online Food Delivery: A Greek Case Study
 <i>Nikolaos Fragkos, Anastasios Liapakis, Constantina Costopoulou and Maria Ntaliani</i></p> | O |
| 8 | 16:10 | <p>Probabilistic War Theories and Application
 <i>Evangelia-Eleni Priska, Miltiadis Chalikias and Dimitrios Kallivokas</i></p> | O |

16:20 Discussion

16:45 Coffee Break

KEYNOTE

17:00 **The Cool Farm Biodiversity metric: an evidence-based online tool to report and improve biodiversity management at farm scale**
Lynn Dicks

SESSION 1

Chair: Athanasios Ragkos

- | | | | |
|---|-------|---|---|
| 1 | 17:30 | Quantitative Assessment of the Entry through Mechanical Transport in Aircraft of Rift Valley Fever Virus-Infected Mosquitoes into Previously Unaffected Areas
<i>Maria Eleni Filippitzi and Claude Saegerman</i> | O |
| 2 | 17:40 | Consumers' perception of novel value chain practices: The perceived added value of green disinfestation methods
<i>Christina Kleisiari, Leonidas-Sotirios Kyrgiakos, Georgios Kleftodimos, Paraskevi Agrafioti, Evagelia Lampiri, George Vlontzos, Christos Athanassiou, Dimitrios Kateris and Dionysis Bochtis</i> | O |
| 3 | 17:50 | Agriculture digitization, power and food system sustainability
<i>Valeria Sodano and Carmela Cappelli</i> | T |
| 4 | 18:00 | Legume grains as alternative to soybean in the diet of dairy ewes
<i>Sotiria Vouraki, Vasiliki Papanikolopoulou, Eleni M. Abraham, Zoi Parissi and Georgios Arsenos</i> | O |
| 5 | 18:10 | Consumers' willingness to pay for green hotels: the case of millennials in Greece
<i>Michalis Skordoulis, Maria Ioanna Andreopoulou and Dimitrios Drosos</i> | T |
| 6 | 18:20 | A real-time approach system for vineyards intra-row weed detection
<i>Vasileios Moysiadis, Dimitrios Kateris, Dimitrios Katikaridis, Giorgos Vasileiadis, Vasileios Kolorizos, Aristotelis C. Tagarakis and Dionysis Bochtis</i> | O |
| | 18:30 | Discussion | |
| | 19:15 | Welcome Gala | |

8:30 Registrations

9:00 Official Opening

SESSION 2

Chair: Thomas Bournaris

- | | | | |
|---|-------|--|---|
| 1 | 9:30 | <p>Considerations for a multi-purpose agrobot design toward automating skillful viticultural tasks: A study in northern Greece vineyards
 <i>Eleni Vrochidou, Christos Bazinas, Efthimia Mavridou, Theodore Pachidis, Spyridon Mamalis, Stefanos Koundouras, Theodoros Gkrimpizis and Vassilis. G. Kaburlasos</i></p> | ○ |
| 2 | 9:40 | <p>Integration of Sentinel-2 derived phenology with SoilGrids and ERA-5 Meteorological data for Operational Crop Yield Forecasting under large scale applications
 <i>Emmanuel Lekakis, Ioannis Pourikas, Vaggelis Oikonomopoulos, Theano Mamouka and Polimachi Simeonidou</i></p> | ○ |
| 3 | 9:50 | <p>Digital representation of smart agricultural environments for robot navigation
 <i>Luis Emmi, Rebeca Parra and Pablo Gonzalez-de-Santos</i></p> | T |
| 4 | 10:00 | <p>Revisiting a tire wheel traction model using a modified width of the tire-ground contact area
 <i>Radu Rosca, Petru Carlescu, Ioan Tenu and Virgil Vlahidis</i></p> | ○ |
| 5 | 10:10 | <p>Corporate Social Responsibility approach at Energy Issue: from Linear to Circular Economic Model
 <i>Immacolata Viola, Gian Paolo Cesaretti and Debora Scarpato</i></p> | T |
| 6 | 10:20 | <p>A suitable controller for frequency control of solar-thermal/biodiesel/biomass/micro-hydro generation of a remote community or farm with energy storage
 <i>Ioannis Moschos, Constantinos Parisses and Ioannis Mastoras</i></p> | ○ |

10:30 Discussion

10:50 Coffee Break

KEYNOTE

11:00 **SMART Dairy Farming: Applications, challenges and future prospects**
Mariska van der Voort

SESSION 3

Chair: Ioannis Fotidis

- 1 11:30 **Intelligent Pesticide and Irrigation Management in Precision Agriculture: The case of VELOS Project** ○
Malamati Louta, Fokion Papathanasiou, Petros Damos, Nikolaos Ploskas, Minas Dasygenis, Thomas Kyriakidis, Nikos Dimokas, Vasileios Balafas, Antonios Chatzisavvas, Ioanna Karampelia, Emmanouil Karantoumanis, Nikolaos Mantas, Vassilios Lazaridis, Ioannis Vandikas, Kostas Stergiou, Pantelis Angelidis and Evangelos Tsikos
 - 2 11:40 **Radio Frequency Energy Harvesting System and the utilization of blockchain technologies in Agriculture** ○
Evdokia Krystallidou, Achilles Boursianis, Panagiotis Diamantoulakis, Sotirios Goudos, George Karagiannidis, Giorgos Siachamis, Georgios Stavropoulos, Dimosthenis Ioannidis and Dimitrios Tzouvaras
 - 3 11:50 **Eukreas: An Integrated Framework for effective traceability of Greek Meat** T
Spiridoula V. Margariti, Jeries Besharat, Dimitris Salmas, George Pachoulas, Giannis Botilias, Chrysostomos Stylios, Dimitrios Kafetzopoulos and Dimitrios Skalkos
 - 4 12:00 **Coupled electromagnetic and heat transfer model for grain seeds drying in a hybrid dryer** ○
Petru Carlescu, Ioan Tenu, Marius Baetu, Vlad Arsenoiaia and Radu Rosca
 - 5 12:10 **Simulation of grain seed motion in a hybrid dryer with CFD-DEM coupling approach** ○
Petru Carlescu, Ioan Tenu, Marius Baetu, Vlad Arsenoiaia and Radu Rosca
 - 6 12:20 **Application of the Analytic Hierarchy Process in a Multi-Criteria Selection of Preferences Expressed by Stakeholders to Improve the Use of IAS** T
Itzel Inti Maria Donati, Davide Viaggi, Zorica Srdjevic, Bojan Srdjevic, Antonella Di Fonzo, Teresa Del Giudice, Orlando Cimino, Andrea Martelli, Anna Dalla Marta and Filiberto Altobelli
- 12:30 Discussion

SESSION 4: SOCIETY

Chair: Stavriani Koutsou

- 1 12:45 **Research for the exhaust gas at natural gas combustion hobs** ○
Ioannis Betounis
- 2 12:55 **Increasing the Use of Big Data via Agricultural Cooperatives** ○
Matteo Cresti
- 3 13:05 **Evaluation of the Satisfaction of the Greek Agricultural Cooperatives by the Provided Banking Services** T
Dimitrios Drosos, Grigorios Kyriakopoulos, Stamatios Ntanos and Michalis Skordoulis
- 4 13:15 **Patterns of User Participation and Contribution in Global Crowdsourcing: A Data Mining Study of Stack Overflow** ○
Himesha Wijekoon and Vojtech Merunka
- 5 13:25 **The Effect of Emotional Intelligence on Perceived e-Service Quality, Consumers' Perceived Value, Purchase, Loyalty Intentions and Satisfaction** T
Sofia D. Anastasiadou, Stylianos Papalexandris and George Konteos

6 13:35 **Urbana: An innovative platform for collective awareness and enhancement of urban agriculture** T
Electra Athanatsiki, Ifigeneia-Maria Tsioutsia, Harry Nakos, Panagiotis Kalampokis and Theodore Dalamagas

7 13:45 **Consumer Adoption of Online Grocery Shopping: Findings from a case study in Cyprus** O
Marianthi Giannakopoulou, George Adamides and Andreas Stylianou

13:55 Discussion

14:10 Lunch Break

SESSION 5: WATER RESOURCES - CLIMATE CHANGE

Chair: Georgios Kountios

1 15:00 **Utilizing IoT technologies to reuse treated wastewater for irrigation - A precision agriculture pilot case** O
Malamati Louta, Dimitris Pantelakis, Fokion Papathanasiou, Thomas Kyriakidis, Konstantina Banti, Ioanna Karampelia, Sokratis Lappos, Evangelia Mpagkavou, Theodoros Adamidis and Ioanna Gkanatsa

2 15:10 **The role of systems analysis in sustainable water resources management - lessons learned in Serbia** O
Bojan Srdjevic and Zorica Srdjevic

3 15:20 **Sociological imagination and climate change: An application of the Richard E. Gross problem-solving model** O
Evangelos Manolas and Michael Littleddyke

4 15:30 **Operation of a digital advisory service for irrigation water management - Case study for maize and alfalfa crops in Greece** O
Nikolaos Malamos, Christos Chalvantzis and Ioannis Tsirogiannis

5 15:40 **Introducing kiwifruit water footprint into a traceability IT system** T
Penelope Baltzoi, Dina Fotia, Dimitrios Salmas, George Pachoulas, Charalampos Karipides, Ioannis Tsirogiannis and Chrysostomos Stylios

6 15:50 **Earth Observation and Digital Agriculture Technologies as data sources for the future CAP monitoring** O
Nikos Kalatzis, Yorgos Efstathiou and Dominique Laurent

16:00 Discussion

SESSION 6: ENVIRONMENT - POLICY

Chair: Ioannis Giantsis

1 16:10 **Collection of pathogen free *Astacus* sp. crayfish and acclimation in laboratory aquaria: the first step towards freshwater crayfish aquaculture development** O
Maria Alvanou, Dimitrios Papadopoulos, Ioannis Georgoulis, Athanasios Lattos, Konstantions Feidantsis, Basile Michaelidis, Apostolos Apostolidis and Ioannis Giantsis

2 16:20 **The application of SWOT-AHP analysis in the design and construction of Forest Road Network** T
Christodoulos Daoutis, Apostolos Kantartzis, Stergios Tampekis, Anastasia Stergiadou and Garyfallos Arabatzis

3	16:30	Assessment of noise emission levels and acoustic pollution near Tirana International Airport "Mother Teresa", Albania <i>Elizabeta Susaj and Lush Susaj</i>	O
4	16:40	Greek students' Environmental Attitude based on the Theory of Ecological Attitude <i>Sofia D. Anastasiadou, Lazaros Anastasiadis, Giannoula Florou and Stavros Valsamidis</i>	O
5	16:50	Transhumance Farmers' Perceptions of Climate Change in the Mediterranean Region, Turkey <i>Selime Canan and Sezen Ocak Yetişgin</i>	T
6	17:00	ArchiMate metamodel for Environmental Management System ISO 14001 standard <i>Martin Rod</i>	T
	17:10	Discussion	
	20:00	Dinner	

9:00 Registrations

KEYNOTE

9:30 **Precision farming and AI as front-runners towards a more sustainable agriculture**
Spyros Fountas

SESSION 7

Chair: Sotiria Vouraki

1 10:00 **The agro-ecological pattern of animal husbandry as a sustainable food system** ○
Alessandro Scuderi, Giuseppe Timpanaro, Mariarita Cammarata, Luisa Sturiale, Claudio Bellia and Vera Teresa Foti

2 10:10 **Conceptual framework of predictive maintenance in a Canning Industry** T
Panagiotis Mallioris, Georgios Kokkas, Alexandros Styliadis-Heinz, Ioannis Margaritis, Fotios Stergiopoulos and Dimitrios Bechtsis

3 10:20 **Data-driven update of AGROVOC using agricultural text corpora** ○
Hercules Panoutsopoulos and Christopher Brewster

4 10:30 **Sustainability of Small Ruminant Production in Rural Areas of Eastern Mediterranean Region of Turkey** T
Nazan Koluman and Serap Göncü

5 10:40 **Consumer preferences for animal welfare labelling on feta cheese** ○
Georgia Papoutsi and Pantelis Noulas

6 10:50 **Towards creating a customized wine story for engagement and transparency** ○
Ioannis Chrysakis, Panagiotis Papadakos, Theodore Patkos, Giorgos Flouris, Georgios Samaritakis, Dimitris Angelakis, Nikoleta Tsabanaki, Nena Basina, Pavlos Baritakis, Ariadne Pratikaki, Ilias Loulakakis and Bart Lyrarakis

11:00 Discussion

11:20 Coffee Break

SESSION 8

Chair: Alexandros Theodoridis

1 11:30 **Sustainable utilization of pig slurry during anaerobic digestion on struvite crystallization** ○
Ioannis Fotidis, Nomiki Kallikazarou and Maria Antoniou

2	11:40	A Reconciliation Framework for the Integration of Stocks and Fisheries Information <i>Yannis Marketakis, Yannis Tzitzikas, Aureliano Gentile, Bracken van Niekerk and Marc Taconet</i>	T
3	11:50	SpaceSheep: Satellite-aided E-shepherd system <i>Raquel Rainho, Daniel Corujo and Pedro Gonçalves</i>	T
4	12:00	Botanical origin and share of agricultural crops in honey during one growing season in Estonian beehives <i>Kaarel Pent, Risto Raimets, Sigmar Naudi, Margret Jürison and Reet Karise</i>	O
5	12:10	Animal-specific heat stress in dairy cattle <i>Sophia Sauter, Isabella Lorenzini, Sarah Hertle and Bernhard Haidn</i>	O
6	12:20	Improving newborn lamb survival and growth rates in semi-intensive conditions in Northern part of Cyprus <i>Nazan Koluman and Serap Göncü</i>	T
	12:30	Discussion	

SESSION 9

Chair: Maria Ntaliani

1	12:50	Procedures and benefits of an integrated soil mapping system for directed soil sampling <i>Aristotelis C. Tagarakis, Dimitrios Kateris, Dimitrios Katikaridis, Gabriela Asiminari and Dionysis Bochtis</i>	O
2	13:00	Design and Develop an Efficient Traceability System for Greek Kiwifruit <i>Spiridoula Margariti, Dimitrios Salmas, George Pachoulas, Paris Schismenos, Penelope Baltzoi, Dina Fotia, Charalampos Karipides, Ioannis Tsirogiannis and Chrysostomos Stylios</i>	T
3	13:10	Assessing consumers' norms regarding food safety standards in retail chain stores <i>Christina Kleisiari, Leonidas-Sotirios Kyrgiakos, Evagelia Lampiri, Georgia Baliota, Ioannis Moutsinas, Georgios Kleftodimos, Thanasis Korakis, Christos Athassiou, George Vlontzos and Thomas Bournaris</i>	O
4	13:20	Natural Language Processing Tools for performing effective text mining tasks in Greek Food & Beverage Sector <i>Anastasios Liapakis, Kyvele-Konstantina Diareme, Constantine Yialouris, Constantina Costopoulou, Theodore Tsiligiridis and Pagona Gorou</i>	O
5	13:30	Comparative analysis of the genetic diversity of Faba bean (<i>Vicia faba</i> L.) <i>Eleni Avramidou, Ioannis Ganopoulos, Eleni Abraham, Irini Nianiou Obeidat, Maslin Osathanukul and Panagiotis Madesis</i>	T
6	13:40	Generation Z knowledge and purchasing behavior towards products with geographical identification <i>Spyridon Mamalis, Irene Kamenidou, Stavros Pavlidis and Athina Eytixidou</i>	O
	13:50	Discussion	
	14:10	Lunch Break	

SESSION 10

Chair: Radu Rosca

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|---|-------|---|---|
| 1 | 15:30 | Path planning for autonomous robotic platform based on created sampling maps
<i>Gabriela Asiminari, Dimitrios Kateris, Vasileios Moysiadis, Ioannis Menexes, Aristotelis C. Tagarakis and Dionysis Bochtis</i> | O |
| 2 | 15:40 | The effect of Human Resource Management practices on the quality of service, customer satisfaction, and organisational performance in Cypriot urban hotel industry
<i>Christos Papademetriou, Sofia Anastasiadou and George Konteos</i> | T |
| 3 | 15:50 | A methodological approach for estimating the costs and benefits of climate adaptation measures
<i>Sabrina Giuca, Marco Gaito, Antonella Di Fonzo, Simonetta De Leo and Guido Bonati</i> | O |
| 4 | 16:00 | Active transportation in urban environments: Lamia citizens' views for the use of the bicycle
<i>Stilianos Tampakis, Veronika Andrea, Paraskevi Karanikola, Eleni Mexi and Antonios Tampakis</i> | T |
| 5 | 16:10 | The Ethics of synthetic meat. A new challenging technology under the ethical scrutiny
<i>Luca Lo Sapio</i> | O |
| 6 | 16:20 | Evaluation of Business Students' satisfaction from internship by using a Multi-criteria Method: A case study from Greece
<i>Stamatios Ntanos, Dimitrios Drosos, Grigorios Kyriakopoulos and Michalis Skordoulis</i> | T |
| | 16:30 | Discussion | |

SESSION 11

Chair: Georgios Delis

- | | | | |
|---|-------|--|---|
| 1 | 16:50 | Fumigation monitoring and modeling of hopper-bottom railcars loaded with corn grits
<i>Daniel Brabec, Efstathios Kaloudis, Christos Athanassiou, James Campbell, Paraskevi Agrafioti, Deanna Scheff, Sotiris Bantas and Vasilis Sotiroudas</i> | O |
| 2 | 17:00 | Linking landscape pattern and human disturbance on a regional level: A case study in Beira Interior region, Portugal
<i>Luís Quinta-Nova</i> | O |
| 3 | 17:10 | Extensible disease classification tool that can be dynamically trained by the end user
<i>Nikos Petrellis</i> | T |
| 4 | 17:20 | A proposed low-cost data-logging system to monitor migratory bird activity
<i>Anastasios Bounas, Konstantinos Sotiropoulos, Artemis Talioura, Dimitrios Kiromitis, Charikleia Kommata and Sotirios Kontogiannis</i> | O |
| 5 | 17:30 | Measuring Customer Satisfaction Using Multicriteria Analysis Methods: The Case of THESgala Cooperative Milk Vending Machines
<i>Dimitrios Drosos, Grigorios Kyriakopoulos, Michalis Skordoulis and Stamatios Ntanos</i> | T |
| | 17:40 | Discussion | |

18:00 Conference Conclusions & Closing

20:00 Cocktails in the City Centre

City Tour - Things to do and places to visit

Acropolis

The greatest and finest sanctuary of ancient Athens, dedicated primarily to its patron, the goddess Athena, dominates the centre of the city from the rocky crag known as the Acropolis. Sitting on and around this hill are several very important sites. The Parthenon is the most famous, but there is also the Temple of Athena Nike, the Erechtheion, the Odeon of Herodes Atticus and the theater of Dionysus. Athens Acropolis is open daily from 8:00 AM to 8:00 PM, with the last entry being at 7:30 PM.

Acropolis Museum

Only 300m away from the sacred rock of Acropolis stands the impressive Acropolis Museum, one of the most important contemporary works of architecture in Athens. It is made of steel, glass and concrete and it houses 4,000 priceless finds from the Acropolis monuments that represent its history and function as the most important religious center of ancient Athens.

Areios Pagos, Philopappou Hill, Pnyx and Ancient Agora

Coming down from the Acropolis you arrive at the Areios Pagos, the most ancient law court of the world. Opposite it is Philopappou Hill, with its beautiful cobbled little roads and the Roman monument by the same name on its top, while close by is the Pnyx, where the citizens of ancient Athens used to assemble and exert their democratic rights. Walking farther along the pedestrian road you arrive at the Ancient Agora, which was the commercial, political and religious center of ancient Athens. A visit to the archaeological site will give you the opportunity to become acquainted with the workings of Classical Athenian democracy and visit the stunning Temple of Hephaestus.

National Gardens and the Zappeion

Located next to the Greek parliament, the National Garden is a large green space behind the Temple of Olympian Zeus and home to the Zappeion. If you have had some time to spare, this is a quiet, shady place to relax. Inviting trails lead through tall trees and offer a reprieve from the busy streets. On the edge of the garden is the Zappeion Hall, which you can enter for a peek inside if it is not in use. It is used for events.

Plaka and Anafiotika Neighborhoods

At the shadow of the Acropolis is Plaka, the most picturesque and oldest district of Athens. Narrow pedestrian streets and the little squares of the Plaka quarter are lined with lovely pastel-painted houses, restaurants, and shops. Unique in every respect is the Cycladic neighborhood of Anafiotika with the tiny, whitewashed houses among the rocks, the gardens with the flowers, the narrow alleys and the mazy planning is similar only to the one found in Cycladic islands. So, a leisurely stroll around these neighborhoods is the perfect thing to do for relaxation.

Effects of Rural Habitat Distribution and Farm Size on Food Production Index Growth in Sub-Saharan African region: A case of East Africa countries

Ndoricimpa Siméon, Xiaoyang Li and Mohammad Heydari

Supporting proactive process recovery decisions in agribusiness using business intelligence tools and machine learning

Athanasios Podaras

Entomophagy - Young Consumers' Beliefs and Potential Attitude Towards Alternative Protein Sources

Christina Kleisiari, Georgios Kleftodimos and George Vlontzos

Application of precision technologies on extensive livestock production: monitoring grazing behavior of goats browsing a Mediterranean forest rangeland

Youssef Chebli, Samira El Otmani, Jean-Luc Hornick, Jérôme Bindelle, Jean-François Cabaraux and Mouad Chentouf

Climate change impacts mitigation using protective nets and IoT technologies in mountainous Mediterranean cherry orchards: Cyprus as a case study

George Adamides, Andreas Savvides, Sotroula Ioannidou, Andreas Stylianou and Constantina Stavridou

The adoption of Information and Communication Technologies in farmers and the emerging need for an integrated system of agricultural advisory and training

Georgios Kountios and Georgios Papadavid

Development of an IoT-based platform for smart irrigation in olive groves using open-source technologies

Konstantinos Tzerakis, Nektarios Kourgialas and Georgios Psarras

Insect food consumption. Assessing levels of acceptance and adoption

Stylios Kartakis, Christina Kleisiari, George Vlontzos and Giorgos Kleftodimos

One Health food-borne disease surveillance: the OH EJP NOVA approach to identify barriers and opportunities in four EU countries

Maria Eleni Filippitzi, Sarah Humboldt-Dachroeden, Geraldine Boseret, Renaud Lailier, Solveig Jore and Estelle Agren

Remote sensing vegetation indices - Evaluation on a mandarin orchard

Dimitrios Koulouris, Nikolaos Malamos and Ioannis Tsirogiannis

Assessing input use efficiency of PGI potatoes

Leonidas Sotirios Kyrgiakos, Georgios Kleftodimos, Stylios Kartakis, Ioannis Mavridis, George Vlontzos and Thanasis Korakis

Drought assessment in Nestos river basin (N. Greece) for the period 1955-2018

Nikolaos Proutsos, Dimitrios Tigkas, Tsevreni Irida and Tsevreni Magdalini

Can farm digitalization be a key to reaching the EU sustainable challenges?

Ginevra Bucalossi, Stefania Lombardo, Daniele Sarri and Marco Vieri

An innovative cluster for the utilization of Greek biodiversity and plant genetic resources with emphasis on aromatic medicinal plants and traditional varieties for the creation of innovative food products

Katerina Grigoriadou, Athanasios Ragkos, Georgia Koutouzidou, Styliani Alexandri, Eleni Maloupa and Ioannis Ganopoulos

Use of aromatic medicinal plants by-products for the development of beverages with beneficial properties

Argyro Vontzalidou, Evanthia Dina, Katerina Grigoriadou, Panagiotis Bagatzounis, Styliani Alexandri, Georgia Koutouzidou, Ilias Giannenas and Nektarios Aligiannis

Immunization of plants

Tamas Komives

Representative policy actions linked to burned forests in Northern Evia: A short contribution to the public debate

Panagiotis Koulelis, Alexandra Solomou, Nikolaos Proutsos, Vassilia Fassouli, Panos Petrakis and Gavriil Xanthopoulos

Detecting changes in annual precipitation trends during the last two climatic periods (1955-1984 and 1985-2018) in Nestos River basin, N. Greece

Nikolaos Proutsos, Alexandra Solomou, Panagiotis Koulelis, Athanassios Bourletsikas, Nikolaos Chatzipavlis and Dimitrios Tigkas

Assessing drought for the period 1955-2021 in Heraklion-Crete (S. Greece) urban environment

Nikolaos Proutsos, Alexandra Solomou, Athanassios Bourletsikas, Nikolaos Chatzipavlis, Michaela Petropoulou, Konstantina Bourazani, Jason Nikolopoulos, Christos Georgiadis and Aimilia Kontogianni

Decadal variation of aridity and water balance attributes at the urban and peri-urban environment of Attica-Greece

Nikolaos Proutsos, Alexandra Solomou and Dimitrios Tigkas

Introducing Nature-based Solutions to optimize the Water-Ecosystems-Food Nexus across the Mediterranean basin: the plain of Tarquinia (IT) case study

Tiziana Pirelli, Valentina Baratella, Antonella Di Fonzo, Stefano Fabiani, Raffaele Giordano, Maria A. Lilli, Nikolaos P. Nikolaidis, Alessandro Pagano, Ivan Portoghese and Silvia Vanino

Innovative education for sustainable development in peripheral rural areas

Dimitra Gaki, Serafim Felekis, George Vlahos, Irina Herzon, Maite Puig-de Morales Fusté, Tristian Berchoux, Ruth Bennettcoady, Ionel Mugurel Jitea, Yanka Kazakova, Myriam Kessari, Olgica Klepac, Valentin Mihai, James Moran, Snježana Tolic and Marija Roglic

Dissipation dynamic of insecticide chlorantraniliprole in pear fruits

Sanja Lazić, Dragana Šunjka, Slavica Vuković and Antonije Žunić

Consumer Perceptions and their Willingness to Pay for Food Products' Traceability: Some Evidence from Greece

Christos Roukos, Alexandra Pavloudi, Fotis Chatzitheodoridis and Achilleas Kontogeorgos

Seasonal visualization of insect behavior in grain warehouses

Paraskevi Agrafioti, Evagelia Lampiri, Efsthios Kaloudis and Christos Athanassiou

The alleviation of water deficit via biostimulant application in greenhouse grown lettuce plants.

Paraskevi Bourouni, Vasilis Roupas, Christina Chaski and Spyridon Petropoulos

The role of Greek state hatcheries in freshwater aquaculture. A mini-review concerning production trend, problems and future perspectives of Pella hydrobiological state hatchery

Pantelis Pyrgilis, Katerina Melfou and Ioannis Giantsis

Assessing consumption patterns of PGI Kato Neurokopi potatoes

Elie Abou Nader, Christina Kleisiari, Stylianos Kartakis, Georgios Kleftodimos, Ioannis Moutsinas, Evagelia Lampiri, George Vlontzos, Christos Athanassiou and Thanasis Korakis

Critical Success Factors and Enterprise Resource Planning implementation in Central Macedonian Agricultural Processing Companies

Asimina Kouriaty, Christina Moulogianni, Thomas Bournaris and Eleni Dimitriadou

Effect of diet on the stable isotopes of carbon and nitrogen in cow-sheep-goat milk

Paraskevi Chantzi, Nives Ogrinc, Doris Potočnik, Stella Dokou, Ilias Giannenas, Michalis Vernikos and Nektarios Giadinis

Economic Evaluation of a Hydroponic Tomato Greenhouse Farm in Greece

Efstratios Michalis, Christina-Eleni Giatra and Athanasios Ragkos

Optimizing mussel production systems: The role of technological tools against unpredictable external conditions

Athanasios Ragkos, Dimitrios Skordos, Georgios Delis, Georgia Koutouzidou and Alexandros Theodoridis

Evaluation of critical factors during the long-term storage of agricultural products in storage facilities of Thessaly with emphasis on stored product insects

Georgia V. Baliota, Evagelia Lampiri, Evanthia N. Batzogianni, Leonidas Sotirios Kyrgiakos, George Vlontzos and Christos G. Athanassiou

Plant composition and diversity in selected urban green spaces of Athens, Greece. A significant management suggestion

Alexandra D. Solomou, Evangelia Avramidou, Nikolaos Proutsos, Evangelia Korakaki, Panagiotis Koulelis, Aimilia B. Kontogianni, Christos Georgiadis, George Karetzos and Konstantinia Tsagari

Modelling odour emissions from an industrial area in northern Greece

Ilias Petrou, Kyriaki Psistaki, Ioannis M. Dokas and Anastasia K. Paschalidou

Rainbow trout performance in an intelligent aquaponic system

Chris Vasdravanidis, Dimitris Papadopoulos, Athanasios Lattos, Ioanna Chatzigeorgiou, Georgios K. Ntinis and Ioannis Giantsis

Sustainable greenhouse cultivation in a vertical aquaponic system with smart control

Ioanna Chatzigeorgiou, Georgios Liantas, Maria Ravani, Georgios Kelesidis, Aphrodite Tsaballa, Athanasios Koukounaras and Georgios Ntinis

Reorganization of agricultural holdings in the region of Central Macedonia using Multi-Criteria Decision Analysis

Christina Moulogianni

AgroTRACE - A complete fresh fruits and vegetables traceability system

Dimitrios Kateris, Nikolaos Tsotsolas, Aristotelis C. Tagarakis, Christos Koidis, Eleni Koutsouraki, Nikolaos Makaritis and Dionysis Bochtis

Integrated soil mapping system for directed soil sampling

Ioannis Menexes, Aristotelis C. Tagarakis, Dimitrios Kateris, Giorgos Vasileiadis and Dionysis Bochtis

Evaluating diatomaceous earth application under economic and environmental dimensions

Leonidas S. Kyrgiakos, Georgios Kleftodimos, Christina Kleisiari, Georgia Baliota, Evanthia N. Batzogianni, Christos G. Athanassiou and George Vlontzos

Application of the AgroNIT smart-farming and decision-support platform to support the cultivation of major tree crops in Thessaly, Greece

Ioannis Moutsinas, Persefoni Maletsika, Vasileios Zafeiris, Fotini Oikonomou, Georgios Tziokas, Argyrios Serafeim, Apostolos Apostolaras, George D. Nanos and Thanasis Korakis

Insecticidal effect of low oxygen treatments against different stored product beetles in real world applications

Maria K. Sakka, Paraskevi Agrafioti and Christos G. Athanassiou