

# HAICTA 2022

CONFERENCE  
PROGRAMME



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



[2022.haicta.gr](http://2022.haicta.gr)

**22-25**  
September

**CROWNE PLAZA ATHENS CITY CENTRE**

50 Michalakopoulou Avenue, Athens, Greece

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# DRAFT

The final programme could be different

THURSDAY  
**22**  
SEPTEMBER

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

14:00 Registrations

## DOCTORAL CONSORTIUM SESSION

Chair: George Vlontzos

- |   |       |  |   |
|---|-------|--|---|
| 1 | 15:00 | <b>Value chain analysis of a cheese with Geographical Indication</b><br><i>Maria Spilioti, Pavlos Karanikolas, Spiros Stachtiaris, Antonios Kominakis and Konstantinos Tsiboukas</i>   | O |
| 2 | 15:10 | <b>Could digital technologies lead to improved lameness detection on dairy farms?</b><br><i>Sarah Hertle, Isabella Lorenzini, Sophia Sauter and Bernhard Haidn</i>   | O |
| 3 | 15:20 | <b>Recommending a strategy for the transition towards circular economy based on the views of environmental students</b><br><i>Evangelia Karasmanaki, Eleni Lympferidou, Konstantinos Bletsas, Achilleas Kontogeorgos and Georgios Tsantopoulos</i> | T |
| 4 | 15:30 | <b>An investigation on Greek Agricultural Cooperatives' Services. What is missing?</b><br><i>Evangelia Karasmanaki, Panagiota Dimopoulou, Achilleas Kontogeorgos and Georgios Tsantopoulos</i>   | T |
| 5 | 15:40 | <b>Social Media Marketing in Greek Winery: Evidence from Facebook</b><br><i>Effrosyni Bitakou, Sotiris Karetzos, Constantina Costopoulou and Maria Ntaliani</i>  | O |
| 6 | 15:50 | <b>Exploring the Benefits of Circular Bioeconomy in Agricultural: A Systematic Literature Review</b><br><i>Christina-Ioanna Papadopoulou, Fotios Chatzitheodoridis and Efstratios Loizou</i>   | T |
| 7 | 16:00 | <b>Sentiment Analysis in Online Food Delivery: A Greek Case Study</b><br><i>Nikolaos Fragkos, Anastasios Liapakis, Constantina Costopoulou and Maria Ntaliani</i>  | O |
| 8 | 16:10 | <b>Probabilistic War Theories and Application</b><br><i>Evangelia-Eleni Priska, Miltiadis Chalikias and Dimitrios Kallivokas</i>   | 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 | <b>Quantitative Assessment of the Entry through Mechanical Transport in Aircraft of Rift Valley Fever Virus-Infected Mosquitoes into Previously Unaffected Areas</b><br><i>Maria Eleni Filippitzi and Claude Saegerman</i>  | O |
| 2 | 17:40 | <b>Consumers' perception of novel value chain practices: The perceived added value of green disinfestation methods</b><br><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 | <b>Agriculture digitization, power and food system sustainability</b><br><i>Valeria Sodano and Carmela Cappelli</i>   | T |
| 4 | 18:00 | <b>Legume grains as alternative to soybean in the diet of dairy ewes</b><br><i>Sotiria Vouraki, Vasiliki Papanikolopoulou, Eleni M. Abraham, Zoi Parissi and Georgios Arsenos</i>   | O |
| 5 | 18:10 | <b>Consumers' willingness to pay for green hotels: the case of millennials in Greece</b><br><i>Michalis Skordoulis, Maria Ioanna Andreopoulou and Dimitrios Drosos</i>  | T |
| 6 | 18:20 | <b>A real-time approach system for vineyards intra-row weed detection</b><br><i>Vasileios Moysiadis, Dimitrios Kateris, Dimitrios Katikaridis, Giorgos Vasileiadis, Vasileios Kolorizos, Aristotelis C. Tagarakis and Dionysis Bochtis</i>  | O |
|   | 18:30 | <b>Discussion</b>   |   |
|   | 19:15 | <b>Welcome Gala</b>   |   |

8:30 Registrations

9:00 Official Opening

## SESSION 2

*Chair: Thomas Bournaris*

- |   |       |  |   |
|---|-------|--|---|
| 1 | 9:30  | <p><b>Considerations for a multi-purpose agrobot design toward automating skillful viticultural tasks: A study in northern Greece vineyards</b><br/> <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><b>Extensible disease classification tool that can be dynamically trained by the end user</b><br/> <i>Nikos Petrelis</i></p>  | ○ |
| 3 | 9:50  | <p><b>Digital representation of smart agricultural environments for robot navigation</b><br/> <i>Rebeca Parra, Luis Emmi and Pablo Gonzalez-de-Santos</i></p>  | T |
| 4 | 10:00 | <p><b>Revisiting a tire wheel traction model using a modified width of the tire-ground contact area</b><br/> <i>Radu Rosca, Petru Carlescu, Ioan Tenu and Virgil Vlahidis</i></p>  | ○ |
| 5 | 10:10 | <p><b>Corporate Social Responsibility approach at Energy Issue: from Linear to Circular Economic Model</b><br/> <i>Immacolata Viola, Gian Paolo Cesaretti and Debora Scarpato</i></p>  | T |
| 6 | 10:20 | <p><b>A suitable controller for frequency control of solar-thermal/biodiesel/biomass/micro-hydro generation of a remote community or farm with energy storage</b><br/> <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: Nikos Petrellis

- 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 **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*
  - 3 11:50 **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 Tzovaras*
  - 4 12:00 **Eukreas: An Integrated Framework for effective traceability of Greek Meat** T  
*Spiridoula V. Margariti, Jeries Besharat, Dimitris Salmas, George Pachoulas, Giannis Botilias and Chrysostomos Stylios*
  - 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 **Urban Agriculture Crowdsourcing Platform (UACP): 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 **Generation Z knowledge and purchasing behavior towards products with geographical identification** O  
*Spyridon Mamalis, Irene Kamenidou, Stavros Pavlidis and Athina Eytixidou*

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

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*

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|---|-------|--|---|
| 1 | 10:00 | <b>The agro-ecological pattern of animal husbandry as a sustainable food system</b><br><i>Alessandro Scuderi, Giuseppe Timpanaro, Mariarita Cammarata, Luisa Sturiale, Claudio Bellia and Vera Teresa Foti</i>   | ○ |
| 2 | 10:10 | <b>Conceptual framework of predictive maintenance in a Canning Industry</b><br><i>Panagiotis Mallioris, Georgios Kokkas, Alexandros Styliadis-Heinz, Ioannis Margaritis, Fotios Stergiopoulos and Dimitrios Bechtsis</i>   | T |
| 3 | 10:20 | <b>Data-driven update of AGROVOC using agricultural text corpora</b><br><i>Hercules Panoutsopoulos and Christopher Brewster</i>  | ○ |
| 4 | 10:30 | <b>Sustainability of Small Ruminant Production in Rural Areas of Eastern Mediterranean Region of Turkey</b><br><i>Nazan Koluman and Serap Göncü</i>  | T |
| 5 | 10:40 | <b>Consumer preferences for animal welfare labelling on feta cheese</b><br><i>Georgia Papoutsis and Pantelis Noulas</i>  | ○ |
| 6 | 10:50 | <b>Towards creating a customized wine story for engagement and transparency</b><br><i>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</i> | ○ |

11:00 Discussion

11:20 Coffee Break

## SESSION 8

*Chair: Alexandros Theodoridis*

- |   |       |   |   |
|---|-------|---|---|
| 1 | 11:30 | <b>Sustainable utilization of pig slurry during anaerobic digestion on struvite crystallization</b><br><i>Ioannis Fotidis, Nomiki Kallikazarou and Maria Antoniou</i> | ○ |
|---|-------|---|---|

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

## SESSION 9

*Chair: Constantina Costopoulou*

1	12:50	<b>Procedures and benefits of an integrated soil mapping system for directed soil sampling</b> <i>Aristotelis C. Tagarakis, Dimitrios Kateris, Dimitrios Katikaridis, Gabriela Asiminari and Dionysis Bochtis</i>	O
2	13:00	<b>Design and Develop an Efficient Traceability System for Greek Kiwifruit</b> <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	<b>Assessing consumers' norms regarding food safety standards in retail chain stores</b> <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	<b>Natural Language Processing Tools for performing effective text mining tasks in Greek Food &amp; Beverage Sector</b> <i>Anastasios Liapakis, Kyvele-Konstantina Diareme, Constantine Yialouris, Constantina Costopoulou, Theodore Tsiligiridis and Pagona Gorou</i>	O
5	13:30	<b>Comparative analysis of the genetic diversity of Faba bean (<i>Vicia faba</i> L.)</b> <i>Eleni Avramidou, Ioannis Ganopoulos, Eleni Abraham, Irini Nianiou Obeidat, Maslin Osathanukul and Panagiotis Madesis</i>	T
6	13:40	<b>Earth Observation and Digital Agriculture Technologies as data sources for the future CAP monitoring</b> <i>Nikos Kalatzis, Yorgos Efstathiou and Dominique Laurent</i>	O
	13:50	<b>Discussion</b>	
	14:10	<b>Lunch Break</b>	

## SESSION 10

Chair: Radu Rosca

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

## SESSION 11

Chair: Georgios Delis

- |   |       |  |   |
|---|-------|--|---|
| 1 | 16:50 | <b>Fumigation monitoring and modeling of hopper-bottom railcars loaded with corn grits</b><br><i>Daniel Brabec, Efstathios Kaloudis, Christos Athanassiou, James Campbell, Paraskevi Agrafioti, Deanna Scheff, Sotiris Bantas and Vasilis Sotiroudas</i> | O |
| 2 | 17:00 | <b>Linking landscape pattern and human disturbance on a regional level: A case study in Beira Interior region, Portugal</b><br><i>Luís Quinta-Nova</i>   | O |
| 3 | 17:10 | <b>A proposed low-cost data-logging system to monitor migratory bird activity</b><br><i>Anastasios Bounas, Konstantinos Sotiropoulos, Artemis Talioura, Dimitrios Kiromitis, Charikleia Kommata and Sotirios Kontogiannis</i>                            | O |
| 4 | 17:20 | <b>Measuring Customer Satisfaction Using Multicriteria Analysis Methods: The Case of THESgala Cooperative Milk Vending Machines</b><br><i>Dimitrios Drosos, Grigorios Kyriakopoulos, Michalis Skordoulis and Stamatios Ntanos</i>                        | T |
| 5 | 17:30 | <b>TBA</b><br>TBA  | T |
|   | 17:40 | <b>Discussion</b>  |   |
|   | 18:00 | <b>Conference Conclusions &amp; Closing</b>  |   |
|   | 20:00 | <b>Cocktails in the City Centre</b>  |   |



## 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**

*Ndoricmpa 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, 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**

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