

## ΠΡΟΓΡΑΜΜΑ / PROGRAM

ΤΕΤΑΡΤΗ 11 ΔΕΚΕΜΒΡΙΟΥ 2024 / WEDNESDAY, DECEMBER 11<sup>th</sup> 2024

- 10:00-11:00 **Προσέλευση-Εγγραφές/Reception and Registrations**
- 11:00-12:00 **Χαιρετισμοί / Greeting speech**
- 12:00-13:00 **Panos Pardalos: Προσκεκλημένος Ομιλητής/Guest Speaker**  
AI and Optimization for a Sustainable Future
- 13:00-14:00 **Ilias Kotsireas: Προσκεκλημένος Ομιλητής/Keynote Speaker**  
AI, Mathematics and climate change
- 14:00-14:30 **Coffee Break**
- 14:30-15:00 **Liampas S.-A. and Giannoulas V.**  
Reforestation's location in Olympus mountain by using Gis and Uav
- 15:00-15:30 **Maria J. Diamantopoulou, Aristeidis Georgakis and Markos Progius**  
Investigating the potential of artificial neural networks with minimal inputs for single and double entry volume tables construction
- 15:30-16:00 **Liampas S.-A. and Giannoulas V.**  
Rational opening-up of forest for the development and management of alternative tourism with respect to the environment
- 16:00-16:30 **Dimitris Ipsakis, Nikolaos Ntavos, Athanasios Lampropoulos, Eleni Papista, Georgios Varvoutis, Michalis Konsolakis, Spiros Papaefthimiou and Costantin Zopounidis**  
Optimal sizing, energy management and process control in RES-H2 systems.
- 16:30-17:00 **Athanasios Liakos, Ioannis Balatsos, Christos Papalitsas, Tao Song and Vassilios Pantazopoulos**  
A hybrid classical-quantum optimization algorithm for the Job Shop Scheduling problem for pharmaceuticals manufacturing process
- 17:00-17:30 **Aristeidis Georgakis and Maria J. Diamantopoulou**  
Determining the Optimal Plot Size for Basal Area Estimation in Forests
- 17:30-18:00 **Sotirios M. Michalopoulos and Ioannis K. Kalavrouziotis**  
Treated wastewater reuse practices, under a holistic approach at the city scale.
- 18:00-18:30 **Charilaos Stefanou, Ekavi Aikaterini Isari, Konstantinos Komnitsas, Petros Kokkinos and Ioannis K. Kalavrouziotis**  
Time-dependent effects of biochar from different feedstocks on Sorghum saccharatum (sorgho) seed germination
- 18:30-19:00 **Georgios Giannopoulos**  
Gröbner bases and their applications in Engineering and Environment
- 19:00-19:30 **Panagiotis Kalatzantonakis, Nikolaos Samaras, Angelo Sifaleras**  
Adaptive Metaheuristics for Combinatorial Optimization: A Reinforcement Learning-Guided Approach

ΠΕΜΠΤΗ 12 ΔΕΚΕΜΒΡΙΟΥ 2024 / THURSDAY, DECEMBER 12<sup>th</sup> 2024

10:00-10:30 Προσέλευση /Reception

10:30-11:00 **Angelos Sifaleras: Προσκεκλημένος Ομιλητής/Keynote Speaker**

Recent Advances in Adaptive Variable Neighborhood Search Methods

11:00-11:30 **Efstratios V. Aretos, Dimitris G. Sotiropoulos and Angelo Sifaleras**

LSTM-SEF: Enhancing Prediction Intervals in Renewable Energy Forecasting

11:30-12:00 **Ioannis Mikrou and Nickolas S. Sapidis**

Enhancing Operational Research Using Modularization on Complex Mechatronic Systems

12:00-12:30 **Vasileios Drosos**

Evaluation of the ideal forest opening – up for rationale management of a mountainous area in Greece

12:30-13:00 **Evangelia Pournara**

Three-dimensional (3D) surveying of a forest trail using modern methods

13:00-14:00 **Coffee Break**

14:00-14:30 **Nikolaos Karagioras**

Climate crisis and stability of the coastal slopes: Case study of the archaeological site of Stagira in Greece

14:30-15:00 **Ilianna Otemperi**

The creation of a standard Forest Map: Case study of mapping an area bearing a decision on the designation of forest land for the protection and development of forests

15:00-15:30 **Kyriaki Kitikidou**

Comparative Assessment of Evergreen and Deciduous Forest Mapping: A Case Study Using MODIS and Sentinel-2 Data

15:30-16:00 **Ioannis Mitrousis**

Specifications for the Phyto-technical arrangement of the renewable energy sources (RES) environment

16:00-16:30 **Vasileios D. Andreou, Anastasia S. Saridou and Athanasios P. Vavatsikos**

GIS-Assisted suitability analysis for offshore wind farms development using multicriteria and machine learning models integration

16:30 -17:00 **Anastasia S. Saridou and Athanasios P. Vavatsikos**

Spatial consumers satisfaction benchmarking analysis using a hybrid outranking multicriteria decision analysis framework

17:00-17:30 **Foteini Kararizou**

The Legimate interest in environmental litigation

17:30-18:00 **Ioannis Sismanidis**

Environmentally friendly road network evaluation in Olympus for protection and tourism purposes

18:00-18:30 **Ioannis Koukoulos**

The role of spatial planning in sustainably managed forests

18:30-19:00 **Ioannis Koukoulos and Georgios Tasionas**

Sustainable Forest Management Certification in Greece

ΠΑΡΑΣΚΕΥΗ 13 ΔΕΚΕΜΒΡΙΟΥ 2024 / FRIDAY, DECEMBER 13<sup>th</sup> 2024

10:00-10:30 Προσέλευση /Reception

10:30-11:00 **Ioannis Giannakis, Christina Emmanouil and Athanasios Kungolos**

Assessment of Physicochemical Properties and Ecotoxicological Effects of Municipal Biosolids for Sustainable Agricultural Applications

11:00-11:30 **Dimitra Alexiou, Dimitra Vagiona and Angelo Sifaleras**

Optimizing Irrigation Network System Design Through Canal Capacity Analysis with Graph Theory

11:30-12:00 **Areti Syridou, Anastasia Kollia and Vasileios Drosos**

Alternative crops and sustainable agriculture

12:00-12:30 **Iordanis Kasapidis**

Application of Kroth method in the field of environmentally sustainable planning and development of the forest opening-up in Greece.

12:30-13:00 **Konstantinos Farmakis**

Local development programs for viable and sustainable development of mountainous area

13:00-13:30 **Evrripidis Farmakis**

Forest operating in semi mountainous Greek (Mediterranean) conditions and environment

13:30-14:00 Λήξη του συνεδρίου/ End of Conference

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