3rd International Conference on Mathematical Models, Engineering and Environment

PROGRAM

MONDAY, SEPTEMBER 29, 2025

10:00-10:30 **Reception and Registrations**

10:30-10:40 **Welcome Speech by the Head of Department: Prof. Nikolaos Karanikolas**

10:40-10:50 **Welcome Speech by the Guest Prof. Angelos Sifaleras**

10:50-11:00 **Corporate Welcome: Georgios Fytianos/Alumil**

11:00-11:30 **Sarantis-Angelos Liampas**

   The use of UAV in the forest reforestation service

11:30-12:00 **Vasileios Giannoulas and Sarantis-Angelos Liampas**

   Road network evaluation in Olympus for ecotourism

12:00-12:30 **Paschalis-Polykarpos Beikos**

   Physics-Informed Neural Networks for Pollutant Dispersion: A Comparison with AERMOD Based on EPA Validation

   Guidelines

12:30-13:00 **Konstantinos I. Efthymiadis and Athanasios P. Vavatsikos**

   Multicriteria Decision Tools in ESG Evaluation: A Systematic Literature Review (2016–2025)

13:00-13:30 **Konstantinos I. Efthymiadis and Athanasios P. Vavatsikos**

   ESG Indicators, Green Accounting, and the Circular Economy: Towards an Integrated Framework for

   Sustainable Business Policies

13:30-14:00 **Athanasios Palantzas, Evangelos Bagkis, Theodosios Kassandros and Kostas Karatzas**

   Development of a Machine Learning Method for Modelling Atmospheric Parameters based on a

   Computational Fluid Dynamics Simulations

14:00-17:00 **Free Time**

17:00-17:30 **Maria Tournaviti and Christos Vlachokostas**

   Toward Sustainable Lithium-Ion Batteries: Integrating Life Cycle Assessment and Multi-Criteria

   Decision- Making

17:30-18:00 **Christos Mertzanakis, Charalampos Toufexis, Alexandra V. Michailidou and Christos Vlachokostas**

   Uncovering public preference patterns for Waste-to-Energy technologies through machine learning

18:00-18:30 **Panagiotis Vryonis, Ioannis K. Kalavrouziotis and Sotirios Varnavas**

   Characterization of the quality of trichonis lake waters on the basis of the behaviour of chlorophyll-A

18:30-19:00 **Maria J. Diamantopoulou**

   Handling of long-range tree diameter dependencies for reliable tree stem volume prediction

19:00-19:30 **Ioannis Koukoulos**

   Digital modernization in the service of firefighting and water supply

3rd International Conference on Mathematical Models, Engineering and Environment

TUESDAY, SEPTEMBER 30, 2025

10:00-11:00   **Reception and Registrations**

11:00-11:30   **Ilianna Otemperi**

Spatial Deviation Analysis and Assessment of Land Use Changes in the Framework of Model Forest Map Creation

11:30-12:00   **Ioannis Mitrousis**

Compatibility control of forest technical works in the natural environment

12:00-12:30   **Ioannis Sismanidis, Lazaris Dimitrios and Anna Theoharidou**

Experiential Learning and Sustainability: Establishing a Botanical Garden in Nikiforos, Drama

12:30-13:00   **Demetris-Francis Lekkas and Eleftheria Klontza**

An integrated approach to urban water quality monitoring, management and valorization.

13:00-13:30   **Dimitra Vagiona**

A comparative analysis of weighting and multicriteria methods in onshore wind farm siting

13:30-14:00   **Vasileios Drosos and Dimitra Alexiou**

The role of spatial planning in sustainably managed forests

14:00 -17:00   **Free Time**

17:00-17:30   **Nikolaos Politidis**

Sustainable forest management certification in Greece

17:30-18:00   **Anastasia Kollia**

Mathematical Modeling of Corporate Bankruptcy Prediction Using Artificial Neural Networks

18:00-18:30   **Evripidis Farmakis**

Redevelopment of a park in today's conditions and needs of an area: the past and the present

18:30-19:00   **Konstantinos Farmakis**

From the protection of the environment to sustainable development and smart digital cities

19:00-19:30   **Areti Syridou**

Quantitative Analysis of Firm-Level Determinants of Leverage in UK Corporations Using Cross- Sectional Models

19:30-20:00   **Filanthi Parathira**

Comparative overview of technical and urban planning issues arising in relation to the Greek and Finnish Cadastre

20:00-20:30   **Evangelia Pournara**

3D surveying of a forest road using modern methods

20:00   **Λήξη του συνεδρίου/ End of Conference**