

CONFERENCE PROGRAM – DAY OVERVIEW

Thursday, June 29, 2023

University of West Attica Conference Center, Ancient Grove Campus

20 min of Presentation + 5 min of Q/A

09:00 – 11:00	Registration	
11:00 – 11:20	Opening and welcome address (Central Amphitheatre) <i>Isaak Vryzidis, Dimitrios Em. Alexakis, Vassilios C. Moussas</i>	
11:20 – 11:30	HELORS Awards and Prizes (Central Amphitheatre) <i>Nikolaos Matsatsinis</i>	
11:30 – 12:30	Invited Plenary Speaker (Central Amphitheatre) <i>Professor Christos H. Papadimitriou</i>	
12:30 – 12:45	Coffee Break	
12:45 – 14:30	Parallel Sessions	
Session 1 Room 1	Decision Making Applications	<i>Chair: Takis Varelas</i>
12:45 – 13:10	MCDA in the Context of Health Technology Assessment (HTA). <i>Ioannis Agorastos, Elpida Pavi and Kostas Athanasakis</i>	
13:10 – 13:35	A discount-enabled mixed integer linear programming model with discrete states of changeover costs for the production planning of a steel tube mill. <i>Paraskevas Georgiou and Nikolaos Tsaparas</i>	
13:35 – 14:00	Optimizing complexus Bunkering Plan Plan B. <i>Artemis Flori, Dimitris Kaklis and Takis Varelas</i>	
14:00 – 14:30	Turn Benefit of Doubt to trustworthiness of MCDA. <i>Takis Varelas, Dimotikalis John, Dimitris Kaklis, Sofia Archontaki and Artemis Flori</i>	
Session 2 Room 2	Data Envelopment Analysis and Data Analysis	<i>Chair: Maria Trnovska</i>
12:45 – 13:10	Advanced preprocessing methods for large-scale Data envelopment analysis. <i>Terézia Fulová, Mária Trnovská and Lenka Filová</i>	
13:10 – 13:35	Utilizing Process Mining Techniques to Improve Chemotherapy Treatment for Breast Cancer Patients. <i>Fatin Ramli</i>	
13:35 – 14:00	Prospects from a European Study on OR/MS Education - The Transition of Graduates onto the Labor Area. <i>Joao Luis de Miranda</i>	
14:00 – 14:30	Path-based models in Data envelopment analysis. <i>Maria Trnovska and Margareta Halicka</i>	
Session 3 Room 3	Operations Management & Optimization	<i>Chair: Iris Forma</i>
12:45 – 13:10	Treatment effect estimation of initial attack activities in wildfire suppression. <i>Mostafa Rezaei, Ilbin Lee and Jen Beverly</i>	
13:10 – 13:35	An Iterative Matheuristic for the Traveling Purchaser Problem with Fast Service Option. <i>Mustafa Avci</i>	
13:35 – 14:00	Building Wildfire Resilience into the Forest Road Network Design. <i>Mualla Gonca Avci</i>	
14:00 – 14:30	Maximizing Company Profit through Employee Retention: A bi-level Optimization Approach. <i>Iris Forma, Inbal Singer, Yossi Bukchin, Gonen Singer and Hila Chalutz-Ben Gal</i>	

14:30 -15:15 Lunch

15:15 – 17:00 Parallel Sessions

Session 4 Room 1	OR in Energy	<i>Chair: Haris Doukas</i>
15:15 – 15:40	Sustainable investment in the building sector: A critical review of financing tools and methods. <i>Ioanna Andreoulaki, Aikaterini Papapostolou, Charikleia Karakosta, Filippos Dimitrios Mexis and John Psarras</i>	
15:40 – 16:05	An integrated indexing system for assessing the climate resilience of buildings. <i>Elissaios Sarmas, Eustathios Stamatopoulos, Katerina Forouli and Vangelis Marinakis</i>	
16:05 – 16:30	Investigating a Building Typology for Supporting Renovation Investments. <i>Aikaterini Papapostolou, Ioanna Andreoulaki, Konstantinos Touloumis, Panagiotis Kapsalis and John Psarras</i>	
16:30 – 17:00	A data-driven methodology for optimizing power recharging management. <i>Eustathios Stamatopoulos, Elissaios Sarmas and Haris Doukas</i>	
Session 5 Room 2	OR and Digital Business	<i>Chair: Dimitris Papakyriakopoulos</i>
15:15 – 15:40	Factors influencing Greek consumers' willingness-to-pay for online streaming services. <i>Georgios Katsamperis, Maria Kamariotou and Fotis Kitsios</i>	
15:40 – 16:05	Customer satisfaction and online ratings in the tourism sector: An evaluation of MUSA on Greek islands. <i>George Okantaris, Maria Kamariotou and Fotis Kitsios</i>	
16:05 – 16:30	Public crisis response strategy and innovation performance: Perceptions on digital transformation during COVID-19. <i>Fotis Kitsios, Evangelia Nousopoulou and Maria Kamariotou</i>	
16:30 – 17:00	Network theory for market basket analysis: A Do-It-Yourself home improvement retail case. <i>Dimitris Papakyriakopoulos and Anastasia Griva</i>	
Session 6 Room 3	Data Analysis	<i>Chair: Vassilis Kostoglou</i>
15:15 – 15:40	Forecasting Models and Subjective Predictions in the Forecasting of Pharmaceutical Market Demand. <i>Dimitrios Kallivokas, Stavros Tzevelekis</i>	
15:40 – 16:05	Tackling the Balance of Performance (BoP) Debate in Motorsports: Development and Simulated Application of Algorithm for BoP Scheme Evaluation and Adjustment. <i>Angelos Kottas, Michail Bozoudis and Michael Madas</i>	
16:05 – 16:30	Benchmarking of European Countries in terms of sustainability: A DEA approach. <i>Magda Benjelloun Arabi and Michael Madas</i>	
16:30 – 17:00	Climate change opinion analysis on tweets using machine learning techniques. <i>Maria Papaefthymiou, Georgios Tsaples, Jason Papathanasiou and Vassilis Kostoglou</i>	
17:00 -17:15 Coffee Break		

17:15 – 19:00 Parallel Sessions

Session 7 Room 1	MCDAs and Decision Support Systems	<i>Chair: Nikos Tsotsolas</i>
17:15 – 17:40	Generating criteria in a Decision Support System for use in Circular Economy Decisions. <i>Lykourgos Lalis, Nikos Tsotsolas</i>	
17:40 – 18:05	Towards the application of Multi-Criteria Decision-Making (MCDM) approaches in Corporate Risk Disclosure. <i>Iakovina Kanellopoulou, Nikos Tsotsolas</i>	
18:05 – 18:30	The application of Supply Chain Operations Reference (SCOR) model with Multi-Criteria Decision-Making (MCDM) methods in the Agri-food sector: A systematic literature review. <i>Georgios Sidiropoulos, Vasileios Zeimpekis, Nikos Tsotsolas</i>	
18:30 – 19:00	Towards the development of a MCDA DSS supporting the evaluation of agri-food products at B2B and B2C level. <i>Nikos Tsotsolas, Georgios Sidiropoulos, Eleni Koutsouraki, Aspasia Antonakaki, Achilleas Kontogeorgos, Angelos Patakas</i>	
Session 8 Room 2	Multi-Criteria Decision Analysis	<i>Chair: Athanasios Spyridakos</i>
17:15 – 17:40	Evaluation of earthquake vulnerability of existing buildings: Towards a Multi-Criteria Decision Aid Approach. <i>Isaak Vryzidis, Konstantinos Repapis and Pnevmatikos Nikos</i>	
17:40 – 18:05	A multicriteria assessment of alternative structural and anti-seismic solutions for buildings design considering sustainability factors. <i>Zoi Staikou, Konstantinos Repapis and Isaak Vryzidis</i>	
18:05 – 18:30	Applying Multicriteria value systems for the estimation of global environmental footprint in refractories. <i>Athanasios Spyridakos, Dimitrios Alexakis, Isaak Vryzidis, Nikolaos Tsotsolas, George Varelidis and Efthimios Kagiaras</i>	
18:30 – 19:00	Multicriteria approach for the assessment of water lakes ecological status. <i>Athanasios Spyridakos, Dimitrios Alexakis, Isaak Vryzidis and Constantin Zopounidis</i>	

20:00 – Gala Dinner

CONFERENCE PROGRAM – DAY OVERVIEW

Friday, June 30, 2023

University of West Attica Conference Center, Ancient Grove Campus

20 min of Presentation + 5 min of Q/A

09:30 – 11:10 Parallel Sessions

Session 9 Room 1	Mathematical Modeling & Optimization	<i>Chair: Sergiy Yakovlev</i>
09:30 – 09:55	The Coordinate Method of Solving Multi-Objective Problems Optimization on the Combinatorial Configuration on Permutations. <i>Liudmyla Koliechkina, Olena Dvirna, and Oksana Pichugina</i>	
09:55 – 10:20	New Classes of Polynomially Solvable Permutation-based Linear Optimization Problem. <i>Oksana Pichugina, Sergiy Yakovlev, Liudmyla Koliechkina and Iryna Yakovleva</i>	
10:20 – 10:45	Sustainability Factors Affecting Manual Assembly Lines. <i>Rhitankar Saha Roy, Mahdi Bashiri and Benny Tjahjono</i>	
10:45 – 11:10	Mathematical Modeling and Solving of Maximum Coverage Location Problem with Irregular Geometric Items. <i>Sergiy Yakovlev, Adam Wojciechowski, Dmytro Podzeka and Iryna Yakovleva</i>	
Session 10 Room 2	Urban Planning and Sustainability	<i>Chair: George Varelidis</i>
09:30 – 09:55	Urban Accessibility and Walkability: Current Approaches and Future Prospects. <i>Athina Mela, Isaak Vryzidis and George Varelidis</i>	
09:55 – 10:20	Integration of Passenger Unmanned Aerial Vehicles (UAVs) in Urban Areas Transportation. <i>Nektarios Fotios Pouresfantiani Karagiannis, Vassilios Moussas and Isaak Vryzidis</i>	
10:20 – 10:45	Opening the agenda for proposing standards on “sustainability proofing” of inland transport infrastructure investments and networks, targeting Resilience. <i>Ioulia Moraitou</i>	
10:45 – 11:10	Introducing a “Smart” Urban Governance concept through novel policy and process holistic approaches. <i>Ioulia Moraitou, Georgios Varelidis</i>	
Session 11 Room 3	Organizational Processes	<i>Chair: Angelos L. Protopapas</i>
09:30 – 09:55	Modelling and deployment of Internal Affairs processes for automated anti-corruption reactive measures. <i>Konstantinos Dimitriadis, George Fakidis, George Tsakalidis and Kostas Vergidis</i>	
09:55 – 10:20	Advanced integrated systems in Non-Governmental Organizations. <i>John Issaris</i>	
10:20 – 10:45	A Tool for Automated Assessment of Organizational Business Processes. <i>George Fakidis, George Tsakalidis, Michael Madas and Kostas Vergidis</i>	
10:45 – 11:10	Agent-based Modeling Social Systems – The Case of COVID-19. <i>Angelos L. Protopapas, Eudokia T. Mitsou and Eleftheria N. Katsiri</i>	
11:10 – 11:30	Coffee Break	

11:30 – 13:10 Parallel Sessions

Session 12 Room 1	OR in Social Care Management	<i>Chair: George Pierrakos</i>
11:30 – 11:55	The risk of poverty and social exclusion for single-parent families and big families during the crisis. <i>Dimitra Melidi, Dimitra Latsou, Chrysostomos Natsis, Anastasios Sepetis and George Pierrakos</i>	
11:55 – 12:20	Sustainable Development without exclusions (Agenda 2030 for Sustainable Development to “Leave No One Behind”) with emphasis on social protection in Greece. <i>Eleni Apostolos Karanasiou, Anastasios Sepetis, Vasileios Kormazos, Aspasia Goula, George Pierrakos and Konstantinos Dalakouras</i>	
12:20 – 12:45	Sustainable Local Development without exclusion: A case study on social protection programmes within the region of Athens. <i>Anastasia Kremmida, Anastasios Sepetis, George Pierrakos and Aspasia Goula</i>	
12:45 – 13:10	Sustainable local development without exclusive: a focus on migration social policy in Greece. <i>Eleni Karanasiou, Anastasios Sepetis, Aspasia Goula, George Pierrakos and Konstantinos Dalakouras</i>	
Session 13 Room 2	Environmental Management	<i>Chair: Dimitrios Dimitriou</i>
11:30 – 11:55	Climate change mitigation and adaptation in the public sector: placing municipal enterprises in the heart of the problem <i>George Stravodimos, Apostolis Arsenopoulos, Anastasia Spanou, Sofoklis Strobolas, Ioannis Georgizas and Theodora Andrinopoulou</i>	
11:55 – 12:20	An integrated framework of Sustainability Balanced Scorecard with neutrosophic AHP for smart port performance evaluation. <i>Antonios Paraskevas and Michael Madas</i>	
12:20 – 12:45	A multi-criteria decision methodology for academic staff selection in a neutrosophic environment. <i>Antonios Paraskevas and Michael Madas</i>	
12:45 – 13:10	Sustainability Performance Evaluation based on a Contract Theory Perspective. <i>Aristi Karagkouni, Maria Sartzetaki and Dimitrios Dimitriou</i>	
Session 14 Room 3	OR in Structural Engineering	<i>Chair: Aristotelis E. Charalampakis</i>
11:30 – 11:55	Performance of a Concrete Crack Detection Tool using Convolutional Neural Networks (CNN). <i>Dionisios Nikolopoulos, Moussas Vassilios and Vryzidis Isaak</i>	
11:55 – 12:20	Multi-Criteria Decision Analysis: Presentation and Comparison of Methods. <i>Pantelis Broukos, Zafiris Dimitriadis, Georgios Hatzigeorgiou and Nikos Pnevmatikos</i>	
12:20 – 12:45	Heuristic optimization design of Reinforced Concrete Retaining Walls. <i>Foteini Konstandakopoulou, Maria Tsimirika, Nikos Pnevmatikos and George Hatzigeorgiou</i>	
12:45 – 13:10	Discrete Optimization of Truss Structures using Differential Evolution: A Preliminary Investigation. <i>Aristotelis E. Charalampakis, Isaak Vryzidis and Constantinos C. Repapis</i>	
13:10 – 14:15 Lunch		

14:15 – 16:00 Parallel Sessions

Session 15 OR Applications I *Chair: Christos Gogos*
Room 1

- 14:15 – 14:40 Estimator comparison for the prediction of election results and applications.
Papageorgiou Georgios and Miltiadis Chalikias
- 14:40 – 15:05 Energy Market Volatility Modeling and Forecasting
Maria Tantoula, Konstantinos Gkillas and Christina Diakaki
- 15:05 – 15:30 A quadratic assignment formulation for minimizing power consumption in deep submicron technology buses.
Konstantinos Papalamprou and Leonidas Pitsoulis
- 15:30 – 16:00 Industrial chocolate production as an optimization problem.
Christos Gogos, Christos Valouxis, Panayiotis Alefragkis and Alexios Birbas

Session 16 Logistics *Chair: Vasileios Zeimpekis*
Room 2

- 14:15 – 14:40 Solving the van-drone routing problem with multiple delivery drop points.
Eleftherios Athanasiadis, Vasilis Koutras and Vasileios Zeimpekis
- 14:40 – 15:05 Surveillance in Logistics Facilities and Ports via UAVs Using YOLOv3 Algorithm
Georgios Teptaris, Konstantinos Mamas and Ioannis Minis
- 15:05 – 15:30 Comparative assessment of alternative order picking technologies: Evidence from laboratory experiments
Nikolaos Chondromatidis and Vasileios Zeimpekis
- 15:30 – 16:00 Adopting Unmanned Aerial Vehicles (UAVs) for real-time stock count process in warehouse facilities: Evidence from experimental.
Nikolaos Christoforos Thomaidis and Vasileios Zeimpekis

16:00 – 16:15 Coffee Break

16:15 – 18:00 Parallel Sessions

Session 17 Room 1	OR and Customer Satisfaction	<i>Chair: Evangelos Grigoroudis</i>
16:15 – 16:40	A Multicriteria DSS for Spatial Consumers Satisfaction Analysis. <i>Anastasia Saridou, Athanasios Vavatsikos and Evangelos Grigoroudis</i>	
16:40 – 17:05	Key Performance Indicators in the Retail Sector: A Literature Review. <i>Anastasia Saridou, Aristi Karagkouni, Athanasios Vavatsikos and Dimitrios Dimitriou</i>	
17:05 – 17:30	Robustness in ordinal regression analysis: The effect of additional constraints on the MUSA method. <i>Stratos Kartsonakis and Evangelos Grigoroudis</i>	
17:30 – 18:00	Marketing strategies based on multicriteria analysis of consumer behavior: The case of a cosmetics company. <i>Nikolaos Kalogerakis, Fotini Kalafati, Efstathios Gerampinis and Nikolaos Matsatsinis</i>	
Session 18 Room 2	OR in Educational Management	<i>Chair: Yannis Psaromiligkos</i>
16:15 – 16:40	The statistical investigation of the diffusion of knowledge within the learning organizations as a factor in creating an innovative student-centered model of education. <i>Evangelia Kossieri, Iro Mylonakou Keke and Athanasios Spyridakos</i>	
16:40 – 17:05	Barometer of teachers' satisfaction in terms of the organization and operation of the educational system. <i>Sofia Meretaki</i>	
17:05 – 17:30	Teacher contentment as regards State Support, Recruitment and Intergration in Schools. <i>Xristina Kouroukli, Ioanna - Antonia Roussou</i>	
17:30 – 18:00	Exploring the Trainers' Digital Competences of Public Vocational Training in Greece during COVID-19 period. <i>Dimitrios Kiriakos, Christos Kytagiias, Kalliopi Rigopouli, Anastasia Themeli and Yannis Psaromiligkos</i>	

CONFERENCE PROGRAM – DAY OVERVIEW

Saturday, July 1, 2023

University of West Attica Conference Center, Ancient Grove Campus

20 min of Presentation + 5 min of Q/A

10:00 – 11:40 Parallel Sessions

Session	Topic	Chair
Session 19 Room 1	OR and Covid-19	<i>Chair: Vryzidis Isaak</i>
10:00 – 10:25	The Impact of the COVID-19 Pandemic on the Digital Transformation of SMEs: An Empirical Study. <i>Christos Ziakis</i>	
10:25 – 10:50	Consumption behaviors and COVID-19 revealed through credit cards usage. <i>Chloe Kim</i>	
10:50 – 11:15	Designing optimal mitigation strategies for COVID-19 with the prevention effects and the economic consequences in Korea: an optimization. <i>Chansoo Kim, Haneol Cho and Kyu-Hwan Lee</i>	
Session 20 Room 2	MCDA in Education: Enhancing Decision-Making and Educational Quality (Special Session)	<i>Chair: Christos Troussas</i>
10:00 – 10:25	An Adaptive Weighted Sum Model for Assessing Learning Content in E-Learning Systems. <i>Christos Troussas, Akrivi Krouska, Phivos Mylonas, Cleo Sgouropoulou</i>	
10:25 – 10:50	A Comprehensive Analysis of E-Learning Material Personalization: An Investigation of AHP, TOPSIS, and PROMETHEE within Multiple Criteria Decision Analysis. <i>Christos Troussas, Akrivi Krouska, Phivos Mylonas, Cleo Sgouropoulou</i>	
10:50 – 11:15	Enhancing Learner Engagement in E-Learning through Weighted Sum Model-based Adaptive Recommendations. <i>Christos Troussas, Akrivi Krouska, Phivos Mylonas, Cleo Sgouropoulou</i>	
11:15 – 11:40	Evaluating the Effectiveness of E-Learning Platforms: A Weighted Sum Model Perspective. <i>Christos Troussas, Akrivi Krouska, Phivos Mylonas, Cleo Sgouropoulou</i>	
Session 21 Room 3	OR Applications II	<i>Chair: Petros Kalantonis</i>
10:00 – 10:25	Mission Planning for Heterogeneous Agile Earth-Observation Satellites Virtual Constellation. <i>Wasanchai Vongsantivanich, Supatcha Chaimatanan, Jer Ling and Daniel Delahaye</i>	
10:25 – 10:50	The retail interest rate pass-through in Algeria. <i>Mohamed Benbouziane and Zoheir Tafer</i>	
10:50 – 11:15	A revisit of the purchasing power parity in the Maghreb countries: A nonlinear perspective. <i>Rabia Meriem Benbouziane, Abdelhak Benamar and Mohamed Benbouziane</i>	
11:15 – 11:40	Board Diversity and Firm Performance: Evidence from retail industry firms in Europe. <i>Marios Sotiropoulos and Petros Kalantonis</i>	
11:40 – 12:00 Closing session (Central Amphitheatre)		