

5th International Symposium and 27th National Conference on Operational Research



Piraeus University of Applied Sciences (Technological Education Institute of Piraeus)
Aigaleo - Athens on June 9-11, 2016



Detailed Conference Program

Conference Center of Piraeus University
of Applied Sciences

P. Ralli and Thivon 250 • 12244 Aigaleo • Athens

DETAILED CONFERENCE PROGRAM

9/6/2016 Thursday

- 09:00 - 10:00** Welcome and Registration
- 10:00 - 11:00** *Opening Ceremony - Awards – Honors- Emeritus*
(Amphitheatre)
- 11:00 - 12:30** **Invited Speakers (Amphitheatre)**
N. Sahinides (Subject: to be announced)
Y. Siskos (Subject: to be announced)

PS 1.1 **9/6/2016 Thursday, 12:45-14:15, Room 1** **Chairman: Y. Siskos**

Multicriteria Decision Aid (1)

- Minimizing Subjectivity Noise at Sea (Seafarers' Axiology)
T. Varelas, S. Archontaki , M. Livadioti
- A Positive Mathematical Programming Model for Planning the Agricultural Production
Ch. Moulogianni, B. Manos
- Decision Support Systems in Marketing: A Literature Review
F. Kalafati, N. Matsatsinis, E. Krassadaki
- Criteria Weights Assessment through Prioritizations (WAP) using Linear Programming Techniques and Visualizations
A. Spyridakos, N. Tsotsolas, E. Siskos

PS 1.2 **9/6/2016 Thursday, 12:45-14:15, Room 2,** **Chairman: J. Psarras**

Energy and Environment

- Public Awareness on Renewable Energy Sources: a Case Study for the Piraeus University of Applied Sciences
S. Ntanos, A. Ntanos, T. Ziatas, J. Salmon
- An Advanced and Integrated turn-key Solution for Smart Energy Cities
H. Doukas, I. Papastamatiou, V. Marinakis, C. Ntanos
- Air Traffic and Energy Consumption Management Methodology with Free Flight Aspects
C. Ntakolia, J. Coletsos

PS 1.3 **9/6/2016 Thursday, 12:45-14:15, Room 3,** **Chairman: N. Matsatsinis**

Information Technology and OR

- Optimal Assignment of Partially Collaborative Servers in two-stage Queueing Systems
I. Papachristos, D. Pandelis
- GIS-based Suitability Analysis using Fuzzy PROMETHEE
A. Vavatsikos, O. Demesouka, K. Anagnostopoulos
- Multicriteria GIS-based Wind Farms Suitability Analysis: Literature Review and Case Study
A. Vavatsikos, P. Karydakos
- Wind Energy Investments Portfolio Formation using GIS and Integer Programming
A. Vavatsikos , D. Petsas

PS 2.1 9/6/2016 Thursday, 15:00-16:45, Room 1, Chairman: A. Ballis

Transportation

- Business Analysis for the Optimal Place to establish a Mezcal Selling Business unit based on the Transportation Problem
M.S. Mojarro Robles, J. L. Chavez Hurtado, H. Palos Delgadillo
- Vehicle Routing with Stochastic Travel Times and Service Reliability Aspects
A. Varias, P. Repoussis, C. Tarantilis
- Branch and Price for the Mobile Targets Vehicle Routing Problem
I. Naoum-Sawaya, C. Gambella, B. Ghaddar
- Optimal Decisions in Pipeline Systems Development based on Multi-level and Multi-objective Spatial Price Equilibrium Models
L. Dimitriou, A. Ballis

PS 2.2 9/6/2016 Thursday, 15:00-16:45, Room 2, Chairman: Y. Politis

Management (1)

- Incorporating six sigma Analysis in Customer Satisfaction Measurement
Y. Politis, E. Grigoroudis
- Improving Service Quality to local Communities via a Citizen Satisfaction Measurement: The Case of Skopelos Island
E. Makaratzis, T. Metaxas, K. Terzidis
- Evaluating Activities to outsource following a Constructive Deviance Approach. A Case Study from Public Organizations
P. Delias
- E-Service Evaluation: User Satisfaction Measurement and Implications in Health Sector
S. Stefanakakis, F. Kitsios

PS 2.3 9/6/2016 Thursday, 15:00-16:45, Room 3, Chairman: E. Grigoroudis

New Developments and Applications

- A Comprehensive Evaluation of Supplier Selection Approaches and Suggestions for Future Researches
M. Alegoz, H. Yapicioglu
- Benchmarking Port Security Performance by Applying Fuzzy Inference System (FIS) to Key Security Performance Indicators (KSPIs)
D. Stavrou, N. Ventikos
- Ground Resistance Estimation using Genetic Programming
K. Boulas, V. Androvitsaneas, I. Gonos, G. Dounias, I. Stathopoulos
- Financial Crisis and Inventory Management: Some Direct Quantitative Consequences
I. Krommyda, K. Skouri, A. Lagodimos

PS 3.1 9/6/2016 Thursday, 17:00-18:30, Room 1, Chairman: A. Kokkosis

Project Management and Scheduling

- A Reference Model for Supplier/Customer Relationship Management in Construction Supply Chains
D. Stamatiou, S. Gayialis, S. Ponis, N. Panayiotou, I. Tatsiopoulos
- Financial driven Project Scheduling: A Dynamic Programming Approach
P. Ipsilandis, D. Tselios, V. Gerogiannis, A. Mitsiou
- Towards a Multicriteria Evaluation Approach of Projects' Selection and Efficiency Measurement
I. Vryzidis, A. Spyridakos, G. Dimakos

- Resources Levelling Using Multi-Attribute Decision Models: Models Implementation and Case Study

C. Markou, G. Koulinas, A. Vavatsikos

PS 3.2 9/6/2016 Thursday, 17:00-18:30, Room 2, N. Tsotsolas

Supply Chain Management

- Risk-Identification Approach in the Steel Supply Chain for decentralized and proactive Risk Mitigation

F. Schlueter, P. Sprenger

- Strategic Design of Cold Supply Chain Networks
V. Yakavenka, I. Siamas, D. Vlachos, E. Iakovou
- Truck Fleet Optimization in fuel distribution
A. Ballis, L. Dimitriou
- The potential of Southeast European Ports of Adriatic, to offer Competitive combined Rail Services, in Relation to the Port of Piraeus, in the North Europe
A. Ballis, L. Dimitriou

PS 4.1 10/6/2016 Friday, 09:00-10:45, Room 1, Chairman: Y. Psaromiligkos

OR and Education

- Training Teachers on the Use of Modern Assessment Techniques: The first Signs of Success
O. Petropoulou, S. Retalis, Y. Psaromiligkos
- Analyzing Students' Preferences in Blended e-Learning Courses Using the Criteria Weights Assessment through Prioritization (WAP) methodology
C. Kytageas, I. Salmon, Y. Psaromiligkos, A. Spyridakos, G. Dimakos
- Assessing Inquiry Skills in Classroom: An Empirical Evaluation Study
A. Themeli, G. Stefanidis, S. Kakkou, O. Petropoulou, Y. Psaromiligkos
- Identifying Defects in Learning Design through a Risk Analysis Process based on Learning Analytics
I. Gewrgakopoulos, C. Kytageas, I. Liomas, Y. Psaromiligkos, A. Voudouri
- Scaffolding the Process of (co)creating, sharing and reusing Innovative Learning Designs
M. Boloudakis, S. Retalis

PS 4.2 10/6/2016 Friday 09:00-10:45 Room 2, Chairman: M. Chalikias

Data Analysis and Analytics

- An EM Algorithm for Count Data Production Frontiers
A. Varias, D. Karlis
- Models of Intergenerational Occupational Mobility
T. Moschona
- Probabilistic Evaluation of Advertisements Spreading
M. Chalikias, M. Skordoulis, P. Papadopoulos, S. Fatouros
- Football Matches: Decision Making on Betting
M. Chalikias, G. Panagou, E. Kossieri
- Banking Data Analysis using Differential Equations
M. Chalikias, P. Lalou, M. Skordoulis

PS 4.3 10/6/2016 Friday, 09:00-10:45, Room 3, Chairman: A. Bournetas

Simulation Methods and Applications

- A Simulation-Optimization Approach for Multimodal Multicommodity Service Network Problem under Uncertainty
S. Layeb, A. Jaoua, A. Jbira, Y.Makhlouf
- Assessing Market Power in an Electricity Market using an Agent based Simulation Model
N. Chrysanthopoulos, G. Papavassilopoulos
- Multi-agent systems for the simulation of maintenance and repair equipment service companies
V. Panteleev, A. Kizim, V. Kamaev
- Comparison of Enhanced Simulation Methods for Pricing American Options with Random Trees
Z. Zosimas, A. Burnetas

PS 5.1 10/6/2016 Friday, 11:00-12:30, Room 2, Chairman: A. Spyridakos

Multicriteria Decision Aid (2)

- A Multiple Criteria Approach Using ELECTRE for the Selection of Maintenance Strategy in Manufacturing Companies
A. Bousdekis, G. Mentzas
- Evaluating Efficiency in Retailing Branches based on DEA Method
A. Karakitsiou, S. Dimitriadis, D. Kavakiotis
- Comparing Hospitality Innovation Strategies: New Service Development using Multicriteria Analysis
F. Kitsios, E. Grigoroudis
- A Taxonomy of Barriers to Entrepreneurship
I. Sitaridis, F. Kitsios
- Comparative Assessment of an Engineering School using Clustering & Multicriteria Analysis Methods
A. Andronoglou, E. Krassadaki, N. Matsatsinis, E. Grigoroudis

PS 5.2 10/6/2016 Friday, 11:00-12:30, Room 2, Chairman: P. Mitropoulos

New Developments and Applications (2)

- Two new Indices for the Evaluation of the one-dimension Cutting Stock Algorithms
S. Dimitriadis, E. Kehris
- Efficiency of Tourist Airports and Influencing Factors: An Assessment of Airport Performance Measurement Techniques
D. Dimitriou, E. Apanomeritaki
- Assessing the Predictive Ability of a Market's Order Book. A Study on Sports bet Exchange.
G. Kyriakides, K. Talattinis, M. Kyrmanidou, M. Ioulianou, G. Stefanidis
- Robust Methods in Stochastic Location Models: Evidence from Primary Health Care Network Planning
P. Mitropoulos, I. Mitropoulos

PS 5.3 10/6/2016 Friday, 11:00-12:30, Room 2

Mathematical Programming and Applications, Chairman: N. Samaras

- Determinants of the number of affected victims caused by an earthquake in Metropolitan Lima and Callao and contrast of response measure through Integer Linear Programming Models for goods distribution for humanitarian aid.
X. Rodriguez, C. Pareja, C. Cornejo

- Retail Category Management: The Development of a Category Optimization Model
M. Karampatsa, E. Grigoroudis, N. Matsatsinis
- A Review of the Hadoop Ecosystem exploring the TFOCS Optimization Solver utilizing the Data Processing Engine of Apache Spark
N. Samaras, S. Madamas
- A Goal Programming Model for Sustainability Analysis of Biomass Plants
K. Petridis, E. Grigoroudis

PS 6.1 10/6/2016 Friday, 15:00-16:45, Room 1, Chairman: D. Dimitriou

Decision Support Systems

- A Multicriteria Decision Support System for Evaluating Urban Development Proposals: The Case of Athens' Hellinikon Airport
K. Aravossis, C. Nikoloudis, N. Chrysanthopoulos, E. Strantzali
- Development of a Spatial Decision Support Tool for Reviewing Accessibility
D. Dimitriou, M. Sartzetaki, A. Kalamakidou
- Reducing Energy and CO2 Emissions at the City Premises: A Decision Support System for Local Authorities
E. Spiliotis, V. Marinakis, G. Tsapelas, C. Skondrogianni, H. Doukas
- Strategic Information Systems Planning: SMEs Performance Outcomes
M. Kamariotou, F. Kitsios

PS 6.2 10/6/2016 Friday, 15:00-16:45, Amphitheatre, Chairman: P. Yannas

Business Administration

- Supporting Change Management using Multicriteria Analysis Approaches and Balanced Scorecard Method
I. Salmon, I. Pappas, A. Spyridakos
- A Methodological Approach for Linking Learning Profiles to Blended Learning Activities
S. Vasalakis, A. Spyridakos, Y. Psaromiligkos, I Salmon
- Evaluation of Public Services through Multicriteria Decision Aid Analysis: The case of Public Income Secreteriat
 - A. Stathakou, I. Siskos, A. Spyridakos, N. Tsotsolas
 - Assessment of recovery priorities of the collectable debts by applying multicriteria approaches
D. Psarafti, A. Spyridakos, I. Siskos, I. Salmon

PS 7.1 10/6/2016 Friday, 18:00-19:30, Room 1, Chairman: D. Apostolou

Management (2)

- Greek Thermal Springs as an Alternative Tourism Destination: A Study of Satisfaction Level
T. Tarnanidis, J. Papathanasiou, O. Moschidis
- A Fuzzy Multicriteria Decision Analysis on selecting the Most Competent Project Manager considering Personality Traits and Project Procurement Systems
G. Aretoulis, C. Parisi, A. Georgiou, J. Papathanasiou, F. Antoniou, C. Triantafyllidis
- Does Business Students' Perception on Entrepreneurship Education Affect their Entrepreneurial Intentions?
T. Tarnanidis, J. Papathanasiou, D. Subeniotis, I. Eleftheriadis
- An Adaptive Memory Programming Framework for Optimizing Transportation Activities

between Suppliers and Customers with Cross-Docking

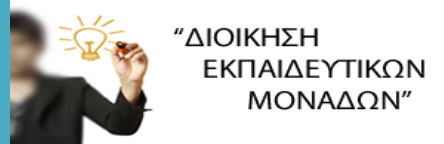
A. Nikolopoulou, P. Repoussis, C. Tarantilis, E. Zachariadis

PS 7.2 10/6/2016 Friday, 18:00-19:30, Room 2, Chairman: D. Yannakopoulos

Applications

- Application of Binomial Distribution to Greek and Turkey Online Tourism Rating Data on TripAdvisor
Y. Dimotikalis
- Financial Evaluation and Efficiency for Agricultural Firms: The Case of Greece
D. Niklis, G. Baourakis, M. Doumpos, C. Zopounidis
- An Authoring Tool for creating Digital Learning Board Games for Cognitive and Social Skills Development
I. Liomas, S. Retalis, T. Smprini, M. Kourakli, Z. Litou
- Evaluating Lightning Protection Systems for Photovoltaic Installations using a Robust Multicriteria Decision Model
K. D. Damianaki, D. D. Damianaki and E. Siskos

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