Οι μεταφορές στην εποχή της Τεχνητής Νοημοσύνης

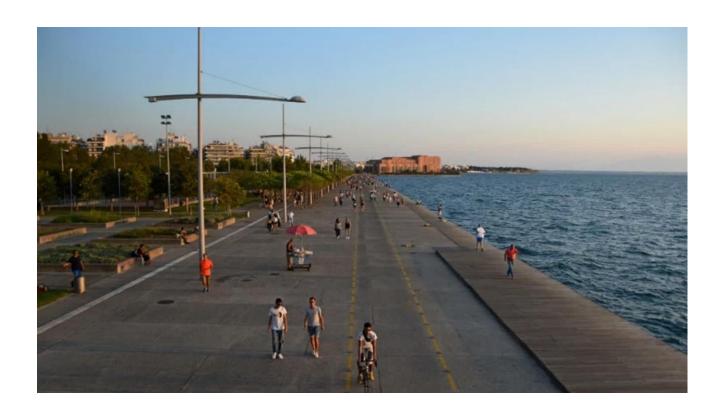


# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

# 12<sup>th</sup> International Congress on Transportation Research October 16<sup>th</sup> - 18<sup>th</sup> 2025

Electra Palace Hotel, Thessaloniki, Greece



# **Congress Program**



Οι μεταφορές στην εποχή της Τεχνητής Νοημοσύνης



# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

#### **The Event**



The Hellenic Institute of Transport (CERTH-HIT) and the Hellenic Institute of Transportation Engineers (HITE) co-organize the "12th International Congress on Transportation Research" (ICTR 2025), which will be held on October 16-18, 2025, in Thessaloniki, Greece. The spotlight theme of the 2025 Congress 'Transportation in the era of Artificial Intelligence'. The conference will explore how Intelligence Artificial (AI) is transforming transportation through advancements in mobility, vehicles, smart infrastructure, autonomous sustainability, ethical considerations and supply chain optimization, shaping the future of urban mobility and logistics.

The ICTR has been a major event in the field of transportation research and development for the past 23 years. The local and international academic and research community, along with the public sector and industry have actively participated and supported the ICTR series for over two decades. ICTR 2025 aspires to host innovative research and development work in transportation and mobility, in Greece and abroad. ICTR 2025 aims to present cutting-edge research in transportation, bridge research findings with policymaking efforts, and foster knowledge exchange at both local and international levels. It seeks to draw insights and develop recommendations for translating research outcomes into real-world applications. Practitioners interested in showcasing applications and practical uses of research are highly encouraged to participate.





Οι μεταφορές στην εποχή της Τεχνητής Νοημοσύνης



# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

#### **The Organizers**



The Hellenic Institute of Transport (HIT) was established in 2000 and is one of the five institutes of the Centre for Research and Technology Hellas (CERTH), which is under the supervision of the General Secretariat for Research and Innovation (GSRI) of the Ministry of Development and Investment. Since its establishment, HIT has evolved towards becoming the leading research institution in transport in Greece. It is also a highly accredited, internationally recognized, and acclaimed research organization that is considered to be a

source of innovation and entrepreneurship in the field of transport in Europe and is identified as a Center of Excellence. HIT provides specialized research and technical services and cooperates with local private and public bodies, as well as a large number of other institutions in Europe and all over the world.

#### HIT's Primary objectives are:

- Promoting and conducting advanced research in the transportation field.
- Providing high-level services in the transportation sector.
- Supporting transport innovation.
- Supporting the decision-making process at government level.
- Provision of education and training of scientists and professionals in transport.
- Disseminating and exploiting research results.
- Cooperating with national, local, private, and public bodies and with many European and international institutes and research centers.



The Hellenic Institute of Transportation Engineers (HITE) was founded in 1976 in Athens, Greece. It currently includes over 900 members, all of them holding a postgraduate degree in transportation and carrying a long experience in the subject matter.

The main objectives of HITE are:

- The promotion and propagation of scientific and technological knowledge in the field of transport by organizing seminars, conferences and roundtables, participating in international conferences and maintaining a library and archives of relevant editions and journals.
- The support of scientific and technological research in the domain of transport at national level by collaborating with public and private organisations.
- The co-operation with competent or relevant to the Institute, scientific foundations of national and international level for exchanging information, organising joint scientific meetings etc.
- The recognition on the part of decision makers, public authorities, the private sector, the educational sector and the society at large, of the necessity for scientific approach and solutions to various transport related problems.
- The establishment and dissemination of technical standards for the study, realisation and management of projects related to passenger and cargo transportation.
- The advisory role to public authorities and corporations as scientific expert supporting decision making.





Οι μεταφορές στην εποχή της Τεχνητής Νοημοσύνης



# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

### **Programme Overview**

Thursday 16 October (1 <sup>st</sup> day – Workshops)						
Room Name		Makedonia I	Makedonia II	Byzantio I	Byzantio II	
	09:00 – 17:30 ICTR 2025 Registrations					
Start	End					
09:00	11:00	Workshop I: Mobilising innovation: The role of public- private partnerships in reshaping urban mobility	Workshop III: Enabling Innovation in Multimodal Transport and Logistics: A Multi- Disciplinary Approach to Ecosystemic Change	Workshop IV: LEZ	Workshop VI: Multimodal Traffic Management Cluster workshop	
11:00	11:30		Bre	eak		
11:30	13:30	Workshop I: Mobilising innovation: The role of public- private partnerships in reshaping urban mobility	Workshop III: Enabling Innovation in Multimodal Transport and Logistics: A Multi- Disciplinary Approach to Ecosystemic Change	Workshop IV: LEZ	Workshop VI: Multimodal Traffic Management Cluster workshop	
13:30	14:30	Break				
14:30	16:30	Workshop II: Fairness & Transparency in Transport Research		Workshop V: RAISE: An innovative way to share and analyse research data	Workshop VII: MITHOS workshop: Restructuring Thessaloniki's public transport system	
17:00	19:00	Study visit I (Metro & Flyover) *				

Friday 17 October (2 <sup>nd</sup> day — Sessions)				
Room Name	Makedonia I	Makedonia II	Byzantio I	Byzantio II





### Οι μεταφορές στην εποχή της Τεχνητής Νοημοσύνης



# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

	09:00 – 17:30 ICTR 2025 Registrations				
Start	End				
09:00	10:30	S1A – Sustainability in Transportation 1	S1B – Traffic Safety 1	S1C – AI in Modelling of private and public transportation	S1D – AI Applications in Transportation and Mobility
10:30	11:00	Coffee Break			
11:00	12:30	Opening Ceremony – Keynotes – Awards Makedonia I-II			
12:30	14:00	Light Lunch			
14:00	15:30	S2A – Sustainability in Transportation 2	S2B – Traffic Safety 2	S2C – Big data in Transportation	S2D – Resilience
15:30	16:00	Coffee Break			
16:00	17:30	S3A – Sustainability in Transportation 3	S3B – Traffic Safety 3	S3C – Smart Infrastructures and Traffic Management	S3D – AI and Autonomous Vehicles
20:30	22:30	Official Dinner			

	Saturday 18 October (3 <sup>rd</sup> day – Sessions)					
Room	Name	Makedonia I	Makedonia II	Byzantio I	Byzantio II	
	09:00 – 16:00 ICTR 2025 Registrations					
Start	End					
09:00	10:30	S4A – Sustainability in Transportation 4	S4B – Traffic Safety 4	S4C – Logistics & Supply Chain management 1	S4D – Electromobility 1	
10:30	11:00	Coffee Break				
11:00	12:30	S5A – Sustainability in Transportation 5	S5B – Traffic Safety 5	S5C – Logistics & Supply Chain management 2	S5D – Electromobility 2	
12:30	14:00	Light Lunch				
14:00	15:30	S6A – Sustainability in Transportation 6	S6B – Sustainability in Transportation 7	S6C – Crosscutting Topics and Emerging Research in Transportation	-	
15:30	16:00	Coffee Break				
16:00	17:00	Closing Ceremony – Paper Awards Makedonia I-II				









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

\* The details regarding the study visits will be provided by the end of September 2025.

### **Day to Day Programme**

	Thursday 16 October (1 <sup>st</sup> day – Workshops)					
Room	Time Slot	Workshop Information				
Makedonia I	09:00 – 11:00 &	Workshop I: Mobilising innovation: The role of public-private partnerships in reshaping urban mobility				
	11:30 – 13:30	Session Organizers: EIT Urban Mobility.				
		Workshop II: Fairness & Transparency in Transport Research				
Makedonia I	14:30 – 16:30	Session Organizers: Dr. Afroditi Anagnostopoulou [Hellenic Institute of Transport (HIT)/ Centre for Research and Technology Hellas (CERTH)], Mr. Athanasio Ballis [Institute of Communication & Computer Systems (ICCS)].				
		Workshop III: Enabling Innovation in Multimodal Transport and Logistics:				
Makedonia	09:00 – 11:00	A Multi-Disciplinary Approach to Ecosystemic Change				
II	& 11:30 – 13:30	Session Organizers: Dr. Georgia Ayfantopoulou, Mr. Sofoklis Dais, Ms. Katerina Batzou [Hellenic Institute of Transport (HIT)/ Centre for Research and Technology Hellas (CERTH)].				
	09:00 – 11:00	Workshop IV: LEZ				
Byzantio I	& 11:30 – 13:30	Session Organizers: Dr. Josep Maria Salanova Grau [Hellenic Institute of Transport (HIT)/ Centre for Research and Technology Hellas (CERTH)].				
		Workshop V: RAISE: An innovative way to share and analyse research				
Byzantio I	14:30 – 16:30	data				
Буганцо і	14.30 – 10.30	Session Organizers: Evdokimos Konstantinidis [Lab of Medical Physics and Digital Innovation, School of Medicine, Aristotle University of Thessaloniki].				
		Workshop VI: MITHOS workshop: Restructuring Thessaloniki's public				
		transport system				
Byzantio II	09:00 – 11:00	Session Organizers: Dr. Evangelos Mitsakis, Dr. Evangelos Mintsis, Mr. Chrysostomos Mylonas, Ms. Maria Stavara [Hellenic Institute of Transport (HIT)/ Centre for Research and Technology Hellas (CERTH)].				
		Workshop VII: Multimodal Traffic Management Cluster workshop				
Durantia !!	11:30 – 13:30	Cossion Organizare, Dr. Fugungolos Mitarlia Mar Dissituis Tanzia III-II				
Byzantio II	& 14:30 – 16:30	Session Organizers: Dr. Evangelos Mitsakis, Mr. Dimitris Tzanis [Hellenic Institute of Transport (HIT)/ Centre for Research and Technology Hellas (CERTH)]				
	17:00 – 19:00 Study visit I (Metro & Flyover)					



Οι μεταφορές στην εποχή της Τεχνητής Νοημοσύνης



# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

Οι μεταφορές στην εποχή της Τεχνητής Νοημοσύνης



# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

### Friday 17 October (2<sup>nd</sup> day – Sessions)

09:00 - 10:30

S1A - Sustainability in Transportation 1

Room: Makedonia I

Session Chairman: Maria Morfoulaki Rapporteur: Maria Chatziathanasiou

#### 7 Anna Laskou, Kornilia Maria Kotoula and Maria Morfoulaki

Shifting gears: How can multimodal mobility hubs promote sustainable travel choices for first/last mile trips. Key lessons from Oslo, Gothenburg and Hamburg.

#### 13 Anestis Gkiourtzidis, Alexandra Laiou and George Yannis

Critical factors of safe micromobility in Greece

#### 18 Maria Morfoulaki, Maria Chatziathanasiou and Iliani Styliani Anapali

Socially Sensitive Planning for Sustainable Mobility: Assessing the Societal Impacts of Mobility Innovations

#### 19 Ourania Tsali and Kostas Alexandris

Exploration of the Profile of Sports/Active Tourists as Ambassadors of Sustainable Mobility and Active Lifestyles

### 20 Iason Tamiakis, Eleni Anoyrkati and Efstratios Arampatzis

Promoting active mobility and living for healthier and sustainable cities through nudging - NUDGING2MOVE

### 24 Glykeria Myrovali, Maria Morfoulaki and Anna Laskou

A mentoring approach for achieving urban transport related - climate neutrality goals in Adrion area

### 28 Neus Matamoros López and Angélica Caicedo Mafla

SPINE: Vertebrating Mobility's State through Sustainable Urban Mobility Plans (SUMPs)

### S1B - Traffic Safety 1 Room: Makedonia II

Session Chairman: Mary Panou Rapporteur: Christina Iliopoulou

#### 2 Maratos Filippidis, Dimitrios Nikolaou, Katerina Folla and George Yannis

Road Crashes Analysis in Greek Islands

#### 56 Evangelia Gaitanidou and Evangelos Bekiaris

30km/h speed limit in urban areas; a survey in European countries

### 31 Christos Kechagias and Georgios Georgiadis

Travel preferences and adherence to traffic regulations among e-scooter users in Thessaloniki, Greece.

#### 67 Vasileios Kartsounis, Stergios Roumeliotis, Maria Giannoulaki, Zoi Christoforou and Ektoras Chandakas

A Data-Driven Approach to Railway Level Crossing Safety in Europe









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

#### 78 Panagiotis Kaymenakis and Sophia Vardaki

Road Safety Auditors' Attitudes: Gathering feedback to improve RSAs

### 38 Stelios Peithis, Paraskevi Koliou and George Yannis

Mapping Risk: Leveraging Telematics and Machine Learning to Analyze Crash Risks at Urban Intersections

#### 120 Paraskevas Nikolaou, Grigorios Fountas and Socrates Basbas

Traffic Safety and Risk Assessment: A Data-Driven Persona Analysis of Crash Severity

#### S1C - AI in Modelling of private and public transportation

Room: Byzantio I

Session Chairman: Ioannis Politis Rapporteur: Micheleraki Eva

#### 40 Eleni Maria Theodoraki, Thodoris Garefalakis, Paraskevi Koliou and George Yannis

Evaluation of Hybrid Machine Learning Models for Risky Driving Behavior Classification: A Comparative Study Using RNN-AdaBoost, GANs, and XGBoost

#### 149 Daniil Petrou and T. P. Moschovou

Integrating DEA and AI-based modeling for efficiency analysis of European freight railways

#### 159 Ioannis-Paraskevas Ioannou, Evangelos Kaisar and Sudhagar Nagarajan

Optimizing Rural Healthcare Accessibility Evaluation with Al-Driven Gravity-Radiation Modeling Under Data Availability Limitations

# 26 Hugo Martínez Lanza, Josep Ramon Morros Rubió, Irene Cárdenas i Palma, Margarida López Romero, Agustí López Marin and Francisco Barelles Planells

Smart Bus Stops: Al-Driven Public Transport Optimization

# 143 Vasiliki Mantouka, Lynn Fayed, Panagiotis Fafoutellis, Alexis Aivaliotis, Petros Fortsakis, Nikolas Geroliminis and Eleni Vlahogianni

SmartBus: User Acceptance and Lessons Learned from the Operation of a Novel On-Demand Mobility Service in the City of Glyfada, Greece

### 170 Georgios Laskaris, Alexandros Liazos, Christina Iliopoulou and Konstantinos Kepaptsoglou

Incorporating Vulnerability into Transit Network Design and Frequency Setting

### **S1D - AI Applications in Transportation and Mobility**

Room: Byzantio II

**Session Chairman: Konstantinos Gkiotsalitis** 

**Rapporteur: Chrysostomos Mylonas** 

#### 50 Antonio Pellicer-Pous, Erick Rodríguez-Esparza and Antonio D. Masegosa

A Simulation-Based AI-Driven Optimization for Roadworks Scheduling: A Case Study in South Holland

10 Alexandros Deligiannis, Michael Madas, Josep Maria Salanova Grau and Georgia Ayfantopoulou









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

Artificial Intelligence in Multimodal Transportation: A Systematic Review of Real-Time Data Integration and Transport Sustainability Approaches

#### 147 Simone Paradiso, Apostolos Ziakopoulos and George Yannis

Aggregating Telematics for Road Safety Analysis

# 157 Konstantia Kontodimou, Nicolas Sentuc, Dimitris Kostamis, Konstantinos Varsos and Konstantinos Kepaptsoglou

Automating Aviation Maintenance Documentation: Using Generative AI for Engineering Order and Task Card Authoring

# 158 Apostolos Christodoulopoulos, Konstantia Kontodimou, Spyros Sioutas and Konstantinos Kepaptsoglou

Enhancing E-Bike Sharing Efficiency with Real-Time Machine Learning Predictions

#### 175 Panagiotis Karetsos, Evangelos Mintsis, Evangelos Mitsakis, Dimitris Tzanis and Viktoria Petkani

Scalable Short-Term Traffic Flow Prediction: A Multi-Phase Deep Learning Approach from Simple to Complex Networks with Real-Time Applications

# 17 Alexandros Georgakopoulos, Alex Papacharalampous, Antonis Gantzos, Alexandros Efraimidis and Iason Plymenos-Papageorgas

Large Language Models as Standardization Tools: A Case-Study Of Automatically Standardizing Transportation Data

#### 10:30 - 11:00 Coffee Break

11:00 - 12:30

Opening Ceremony - Keynotes - Awards

Room: Makedonia I & II

Session Chairmen: Evangelos Mitsakis, Konstantinos Kepaptsoglou

12:30 - 14:00 Light Lunch

14:00 - 15:30

S2A - Sustainability in Transportation 2

Room: Makedonia I

Session Chairman: Sokratis Basbas Rapporteur: Orestis Tsolakis

### 30 Thomas Dimos, Josep Maria Salanova, Marc Fíguls, Pedro Coutinho and Thanasis Tolikas

Safety analysis of the bike lane network of Thessaloniki

### 33 Konstantinos Vitsas, Maria Giannoulaki and Zoi Christoforou

Challenges and Opportunities in Public Transport Usage Among Immigrants and Refugees: A Case Study in Attica, Greece

35 Panagiotis Tzouras, Amalia Nikolopoulou, Aliki Pouliasi, Konstantinos Gkiotsalitis and Konstantinos Kepaptsoglou





### Οι μεταφορές στην εποχή της Τεχνητής Νοημοσύνης



# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

A first investigation of mobility culture aspects and shared mobility in eight European Cities

#### 36 Paraskevi Koliou, Alexandra Ntarla and George Yannis

Athenian's Preferences toward Public Space Redistribution

#### **86 Ioannis Zantiris and Theodoros Tsekeris**

Comparative analysis of national transport plans in Greece, the EU and non-EU countries

#### 42 Josep Maria Salanova Grau, Iordanis Konstantinidis, Fokion Karavasilis and Despoina Tsavdari

Re-design of Public Transport Networks after the introduction of a new mode or technology

### S2B - Traffic Safety 2 Room: Makedonia II

Session Chairman: Grigoris Fountas Rapporteur: Apostolos Vouitsis

#### 71 Marios Sekadakis, Themida Bouropoulou, Thodoris Garefalakis and George Yannis

Alcohol-Impaired Driving: Evaluating Its Impact on Urban Safety and Driver Behavior through Driving Simulator

#### 105 Thomas Antoniadis and Stergios Mavromatis

Wrong-Way Driving Mitigation Strategies on Motorway Exit Ramps

#### 121 Jana Horemans, Evelien Polders, Jos Janssen, Davy Janssens, Tom Brijs and Geert Wets

Empowering Communities for Road Safety: Introducing the Citizens4Safety platform

#### 3 Dimitrios Nikolaou, Konstantinos Kaselouris and George Yannis

Risky Behaviours and Safety Perception of Moped Riders and Motorcyclists Globally

#### 133 Danijela Barić and Silvestar Grabušić

Review of AI Applications in the Railway Transport Sector for Accident Prevention

#### 135 Amirhossein Hassani, Muhammad Shahid, Olivera Rozi and Marko Ševrović

EfficientNet-Swin Transformer for Automated iRAP Road Safety Attribute Extraction in Low- and Middle-Income Countries

#### 136 Aristotelis Tsoutsanis, Stelios Peithis, Apostolos Ziakopoulos and George Yannis

Identifying Dangerous Street Segments and Traffic Behavior in Athens using telematics, crash and traffic data

#### **S2C - Big data in Transportations**

Room: Byzantio I

Session Chairman: Eleni Vlahogianni Rapporteur: Viktoria Petkani

65 Julia Porto, Apostolos Ziakopoulos and George Yannis









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

Road segmentation made simple: a practical comparison of segmentation models and post-processing techniques

69 Lígia Conceição, Madiha Shahzad, Petr Bureš, João Montenegro, Chrysostomos Mylonas, Maria Stavara, Benjamin Witsch, Jasper Beernaerts, Holger Drees and Evangelos Mitsakis

A Review on European Data Platforms and Frameworks Towards Discoverability of Mobility Data

113 Maria Stavara, Chrysostomos Mylonas, Rodolfo Da Silva and Evangelos Mitsakis

ITS Data Exchange and Reasonable Pricing: Perspectives of Data Providers and Consumers

118 Chrysostomos Mylonas, Petr Bureš, Maria Stavara, Jan Vlčinský, Apostolos Vouitsis and Evangelos Mitsakis

Evaluating Barriers to Pan-European Traffic Data Exchange: Metadata, Structural Quality, and Consumer Usability and Accessibility

128 Chrysostomos Mylonas, Maria Stavara and Evangelos Mitsakis Traffic

Data Quality Assessment: A Framework for Floating Car Data Evaluation

163 Maria Karatsoli, Ioanna Pagoni, Kimon Deligiannis, Stefanos Vlachos, Christos Tryfonopoulos, Paraskevi Raftopoulou and Amalia Polydoropoulou

Social Media Metrics for Urban Mobility: Engagement Insights from X (formerly Twitter) in European Cities

183 Katerina Koliou and Ioanna Spyropoulou

A Spatiotemporal Approach to Dynamic Data Imputation for Loop Detector Speed via Correlation

220 Nikolaos Mexis, Katerina Koliou and Ioanna Spyropoulou

The importance of two-stage clustering towards the detection of speed patterns

S2D - Resilience Room: Byzantio II

Session Chairman: Konstantinos Kepaptsoglou

**Rapporteur: Orfeas Karountzos** 

15 Dimos Touloumidis and Michael Madas

Technology-enabled Climate Resilience in Transport and Logistics: A Systematic Review and Policy Framework

107 Aggelos Aggelakakis, Georgios Ntanis, Maria Boile and Sotirios Theofanis

Port Security and Resilience: A Technological Approach to Smart Infrastructure Monitoring

108 Chrysostomos Mylonas, Evangelos Mitsakis, George Giannopoulos and Maria Stavara

An Updated Study of the Climate Change Impacts on the Transportation Sector of Greece

112 Paraskevas Nikolaou and Loukas Dimitriou

Assessing Resilience in Cyprus Motorways: Evaluating the Emergency Response Efficiency and the Recovery Strategies









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

#### 127 Fotis Liatsos, Afroditi Dr. Anagnostopoulou and Vassilios Dr. Kappatos

Resilience, Security, and Sustainability in the Automotive Sector: Addressing the Skilled Labour Gap in Circular Material Welding

### 129 Argyrios Balatsoukas and Giannis Adamos

Enhancing the Resilience of Critical Infrastructure to Extreme Climatic Events through Intelligent Transportation Systems and Cultural Heritage.

### 137 Parmenion Delialis and Konstantinos Androutsopoulos

Modelling and Solving the Multi-Modal Relief Material Distribution Problem

#### 43 Olga Paraskevopoulou, Orfeas Karountzos and Christina Iliopoulou

Maritime network resilience against extreme weather events: the case of the Aegean Sea

#### 15:30 - 16:00 Coffee Break

16:00 - 17:30

#### S3A - Sustainability in Transportation 3

Room: Makedonia I

Session Chairman: Lambros Mitropoulos Rapporteur: Maria Konstantinidou

### 47 Konstantinos Skalkos, Dimitrios Kollias and Zoi Christoforou

Study of Bicycle Navigation Algorithms and Suggestions for Improvement

#### 51 Avital Angel, Josep Maria Salanova Grau, Thomas Dimos and Pnina Plaut

Comparative analysis of pedestrian movement in commercial-residential streets across two Mediterranean cities

#### 53 Ioannis Tsirimonakis, Christina Georgopoulou, Panagiotis Papantoniou and Dimosthenis Pavlou

Seasonal Parking demand characteristics in private lots

#### 62 Virginia Petraki, Dimitrios Nikolaou and George Yannis

Optimizing Driving Behavior for Sustainable Mobility: A Systematic Literature Review

#### 70 Marios Sekadakis, Penny Kourenti, Thodoris Garefalakis, Apostolos Ziakopoulos and George Yannis

Eco-Driving Effectiveness in Reducing Emissions and Crashes in Rural Areas

#### 72 Athanasios Demiris, Grigorios Fountas and Socrates Basbas

Generation Z's Perspectives about the Impact of Climate Change on Travel Behavior: Evidence from Thessaloniki, Greece

#### 73 Vasileios Milias, Stefanos Tsigdinos, Panagiotis Tzouras and Konstantinos Kepaptsoglou

CThood: A tool for mapping pedestrian accessibility and uncovering access inequities in X-minute neighborhoods

#### S3B - Traffic Safety 3









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

Room: Makedonia I

Session Chairman: Lila Gaitanidou Rapporteur: George Laskaris

138 Maria G. Oikonomou, Ioannis Paschalidis, Marios Sekadakis, Thodoris Garefalakis and George Yannis

Effects of Fatigue on Driver Behavior in Urban and Highway Environments Using a Driving Simulator

139 Sofia Alvanou, Viktoria Petkani, Vasileios Mizaras, Dimitris Tzanis, Evangelos Mitsakis, Georgia Ayfantopoulou and Aikaterini Symeonidou

A Platform for Road Safety Management and Improvement in the Road Network of the South Aegean Region

#### 150 Maria Pomoni and Konstantinos Gkyrtis

Upgrade Opportunities of Road Infrastructure Parameters through Traffic Incident Data

160 Armira Kontaxi, Alexis Aivaliotis, Haris Sideris, Dimitris Oikonomopoulos and George Yannis

Driver Profiling through Incentive-Based Cluster Analysis in a Naturalistic Driving Study

161 Armira Kontaxi, Alexis Aivaliotis, Haris Sideris, Dimitris Oikonomopoulos and George Yannis

Evaluating the Impact of Driving Competitions on Driver Behavior and Safety

166 Konstantinos Mattas, Davide Maggi, Andres Laverde Marin, Akos Kriston and Biagio Ciuffo

A Simulation-Based Evaluation of the Safety Benefits of Driver Monitoring Systems

#### 173 Stella Roussou, Michalis Nikolaou, Virginia Petraki and George Yannis

Evaluating the Impact of Speed Limit Reductions on Greek Motorways: A Cost-Benefit and Acceptance Analysis

#### S3C - Smart Infrastructures and Traffic Management

Room: Makedonia I

**Session Chairman: Evangelos Mintsis** 

**Rapporteur: Dimitris Tzanis** 

5 Ioannis Lefas, Konstantina Argyropoulou, Panagiotis Demestichas, Sokratis Barmpounakis, George Agapiou and Vasileios Tsekenis

Integrating Passenger and Freight Transport: The DELPHI Approach to Modern Mobility Challenges

#### 55 Cristina Buraga, Renan Perrot and Jean-Philippe Mechin

Deploying C-ITS services for innovative mobility

#### 109 Chrysostomos Mylonas, Apostolos Vouitsis, Evangelos Mitsakis and Konstantinos Kepaptsoglou

Applying Traffic Control Methods in the Analysis of Digital Infrastructure Failures: The Case of Traffic Signal Tampering

#### 110 Dimitris Tzanis, Alexandros Dolianitis, Viktoria Petkani and Evangelos Mitsakis

A Gamification Approach for the Identification of Requirements for Novel Multimodal Traffic Management Solutions









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

#### 206 Dimitrios Pappelis and Emmanouil Chaniotakis

Departing from Neoclassical Choice Representations: Implications of Rational Inattention

209 Viktoria Petkani, Dimitris Tzanis, Evangelos Mitsakis and Vasileios Psonis

The SYNCHROMODE Toolbox: A decision support tool for enhanced multimodal traffic management

210 Viktoria Petkani, Dimitris Tzanis, Evangelos Mitsakis and Evangelos Mintsis

Data Quality in Traffic Management: A Scalable Framework

S3D - AI and Autonomous Vehicles

Room: Makedonia I

Session Chairman: Maria Gkemou Rapporteur: Ioannis Gregkopoulos

27 Clément Lemardelé, Angelica Caicedo, Albert Baldó and Ángel Santamaría

Integrating autonomous delivery robots into Barcelona's superblocks for sustainable urban freight

66 Efstratios Myritzis, Anargyros J. Roumeliotis, Konstantinos V. Katsaros and Angelos J. Amditis

Predictive Quality of Service with Split Learning in Automotive Systems

141 Silvia Barbaro and Ted Zotos

Bridging trust, safety, efficiency and innovation: AI and explainable AI in road transport

169 Alexandra Vasileiadou and Konstantinos Gkiotsalitis

Modular bus scheduling problem with short-turning options

177 Aristomenis Kopsacheilis, Athena Psalta, Vasileios Tsironis, Ioannis Politis and Konstantinos Karantzalos

Deep Learning-Based Trajectory Prediction for VRU-Vehicle Conflict Detection

181 Julia Roussou, Apostolos Ziakopoulos, Armira Kontaxi and George Yannis

A Review on Legal Consideration and Liability Allocation of Automated Vehicles

237 Maria Papandreou and Ioannis Politis

The impact of autonomous driving characteristics on passenger trust optimization

20:30 - 22:30 Official Dinner (location will be provided soon)

#### Saturday 18 October (3rd day – Sessions)

09:00 - 10:30

S4A - Sustainability in Transportation 4

Room: Makedonia I

Session Chairman: Afroditi Anagnostopoulou

**Rapporteur: Giorgos Georgiadis** 

74 Panagiotis Tzouras and Roxani Gkavra









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

Introducing a navigation algorithm for bike-sharing systems based on the Value-of-Safety concept

76 Georgios Pontikis, Panagiotis Papantoniou, Vasiliki Amprasi, Dimosthenis Pavlou and Eleni Karakitsou

Διερεύνηση κρίσιμων παραμέτρων για τη λειτουργικότητα των κόμβων κινητικότητας στην Αθήνα

81 Jose Maria Salanova Grau, Zisis Maleas, Andreas Nikiforiadis, Alexandros Siomos and Iordanis Konstantinidis

Exploring Mobility Patterns in Thessaloniki: An In-Depth Analysis Before and After Metro Implementation

84 Stefanos Tsigdinos and Ilias Machairas

Car vs public transport. Spatiotemporal accessibility variations in Heraklion, Crete

**85 Alexandros Deloukas** 

Induced and Diverted Tourist Flows: the Case of Southern Greece

37 Paraskevi Koliou, Dimosthenis Tzoutzoulis and George Yannis

Advancing Sustainable Urban Mobility: A Model-Based Analysis of a Proposed Mobility Card System in Athens and User Acceptance

89 Alexandros Deligiannis, Serafim Kontos, Afroditi Stamelou, Vasileios Mizaras, Natalia Liora, Josep Maria Salanova Grau, Konstantinos Diakakis, Georgia Ayfantopoulou, Konstantinos Karatzas and Dimitrios Melas

Fine-Scale Air Quality Estimation from Coarse Traffic-Based Forecasts: The Case of Thessaloniki

S4B - Traffic Safety 4 Room: Makedonia II

Session Chairman: Foteini Kehagia Rapporteur: Afroditi Stamelou

174 Stella Roussou, Roberto Ventura, Apostolos Ziakopoulos and George Yannis

Predicting Pedestrian Violations in Urban Intersections Using ANOVA and Poisson Regression

176 Panagiotis Lemonakis, Apostolos Anagnostopoulos, Fotini Kehagia, Victoria Zorba, Konstantinos Michopoulos and Evangelos Manthos

A methodology to investigate vehicles' trajectories in urban intersections

191 Apostolos Anagnostopoulos, Panagiotis Lemonakis, Fotini Kehagia, Victoria Zorba, Konstandinos Grizos, Evangelos Manthos and Leonidas Bakouros

Employing vehicle trajectory analysis and surrogate safety measures to assess pedestrian safety at signalized intersections

192 Nikiforos Stamatiadis, Reg Souleyrette, Tony Fields and Caitlin Northcutt

Use of Text Data Mining and Dataset Linkages to Identify Work-Related Crashes

197 Alexandros Bechlioulis and Markos Tselekounis

The Nexus Between Road Safety and Country Sustainability Performance









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

#### 208 Άννα Πούλιου, Φωτεινή Κεχαγιά, Μάγδα Πιτσιάβα-Λατινοπούλου and Ευάγγελος Μπεκιάρης

Συμπεριφορά οδηγού σε μη αναμενόμενα συμβάντα: Μοντελοποίηση σε συνθήκες αυξημένου νοητικού φορτίου

#### 58 Virginia Petraki, Armira Kontaxi and George Yannis

A social Cost-Benefit Analysis for the provision of financial incentives and benefits for vehicle insurance policies using telematics

### S4C - Logistics & Supply Chain management 1

Room: Byzantio I

Session Chairman: Maria Boile

**Rapporteur: Eleftherios Sdoukopoulos** 

#### **4 Antonios Paraskevas and Michael Madas**

Smart Ports as the Nexus of Global Trade: Advancements and Challenges in the Era of Industry 4.0

# 25 Zoi Petrakou, Charilaos Koutsis, Alexandros Papacharalampous, Alexeis Garcia Perez, Jayant Sangwan and Eftychia Koliou

Enhancing Data Interoperability in European Transport Systems: Key Insights from the KEYSTONE Project on API Standardization

#### 39 Josep Maria Salanova Grau, Iordanis Konstantinidis, Fokion Karavasilis and Despoina Tsavdari

Optimization of School Transport Operations in Thessaloniki

#### 77 Vasileios Giannoudis, Dimos Touloumidis, Georgia Ayfantopoulou and Panagiotis Kanellopoulos

Rethinking Urban Freight: Laying the Groundwork for Shared Smart Parcel Lockers in Public Spaces

#### **87 George Bertsatos and Theodoros Tsekeris**

Road freight traffic and industrial activity: Evidence from the Greek crisis

#### 94 Dimitrios Dimitriou, Maria Sartzetaki and Aristi Karagkouni

Assortment of transport infrastructure impact in regional economy: The Case of Corfu Port in the Mediterranean

#### 117 Ioannis Karakikes, Athena Tsirimpa, Federico Moro, Vaike Fors and Amalia Polydoropoulou

Sustainable Last-Mile Deliveries in Urban Freight Transport: A Living Lab Approach with Cargo Bikes and Delivery Droids

### S4D - Electromobility 1

Room: Byzantio II

Session Chairman: Jose Maria Salanova Grau

**Rapporteur: Panagiotis Tzouras** 

#### 34 Marina Ojeda

SOH Fleet: An Innovative Approach to Battery Health Estimation for Electric Bus Fleet Management

44 Aggeliki Skouri, Stefanos Demenegas, Panagiotis Papantoniou and Dimosthenis Pavlou





### Οι μεταφορές στην εποχή της Τεχνητής Νοημοσύνης



# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

Διερεύνηση Περιβαλλοντικών και Κυκλοφοριακών Επιπτώσεων Ηλεκτροκίνησης σε Αυτοκινητόδρομο

45 Christos Gioldasis, Zoi Christoforou, Anastasios Kallianiotis, Filippos Farmakis and Chang Chen

Life-cycle of soft mobility vehicle batteries

46 Dimitrios Kollias, Athanasios Athanasatos, Christos Gioldasis and Zoi Christoforou

Analysis of lithium-ion battery recycling strategies and creation of a model recycling plan for the Greek territory

52 Evangelia Psourogianni, Panagiotis Papantoniou and Dimosthenis Pavlou

Διερεύνηση Χαρακτηριστικών Φόρτισης Ηλεκτρικών Πατινιών

80 Jose Maria Salanova Grau, Zisis Maleas, Andreas Nikiforiadis, Alexandros Siomos and Thomas Dimos

From Free-Floating to Hubs: A Scooter Analysis and Parking Spots Designation in Thessaloniki

91 Anastasios Kallianiotis, Stergios Roumeliotis, Zoi Christoforou, Nadir Farhi and Chang Chen

Implementing a Novel E-Bicycle Simulator

#### 10:30 - 11:00 Coffee Break

11:00 - 12:30

S5A - Sustainability in Transportation 5

Room: Makedonia I

Session Chairman: Glykeria Mirovali Rapporteur: Kornilia Maria Kotoula

96 Pavlos Karpouzos, Theodora Tzortzidou, Konstantinos Fouskaris and Georgios Georgiadis

Assessing the perceived quality of service among Metro passengers in Thessaloniki, Greece

106 Giwrgos Logothetis, Georgia Mpoi and Christina Milioti

Electric and autonomous buses: Exploring factors affecting users' adoption in Greece

114 Athanasia Maria Moustaka, Vassilios Kappatos and Afroditi Anagnostopoulou

Biomethanol as a Sustainable Fuel for Maritime Transport: Insights from the NextFuel Project

130 Georgia Aifadopoulou, Josep Maria Salanova Grau, Thomas Dimos, Fokion Karavasilis, Maria Konstantinidou and Panagiotis Tzenos

Innovative Pedestrian Routing in Thessaloniki: A Data-Driven Approach for Secure and Efficient Urban Mobility

131 Georgia Aifadopoulou, Josep Maria Salanova Grau, Thomas Dimos, Fokion Karavasilis, Alexandros Siomos, Vasilis Mizaras and Afroditi Stamelou

Evaluating the x-Minute City Framework in Thessaloniki: Assessing Urban Accessibility Through Multimodal Mobility and Spatial Analysis

146 Eirini Stavropoulou, Nikiforos Stamatiadis, Teng Wang and Reginald Souleyrette

Refining a Complete Streets scorecard: A data-driven approach for project prioritization in Kentucky









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

# 153 Apostolos Vouitsis, Victoria Petkani, Dimitris Tzanis, Evangelos Mintsis, Evangelos Mitsakis and Georgia Ayfantopoulou

Impact assessment of Thessaloniki's New Metro System

S5B - Traffic Safety 5 Room: Makedonia II

Session Chairman: George Yannis Rapporteur: Dimitris Tzanis

90 Ελισάβετ Λαβασιδου and Φωτεινη Κεχαγια

ΑΞΙΟΛΟΓΗΣΗ ΟΡΙΖΟΝΤΙΑΣ ΚΑΙ ΚΑΤΑΚΟΡΥΦΗΣ ΣΗΜΑΝΣΗΣ ΣΕ ΑΣΤΙΚΟ ΟΔΙΚΟ ΤΜΗΜΑ

221 Armira Kontaxi, Dimitrios Nikolaou, George Yannis, Simona Roka, Francisco López and Jacques Saadé

Physical and psychological long-term consequences of serious traffic injuries: The IMPROVA Project

60 Virginia Petraki, Dimitris Nikolaou and George Yannis

Exploring Safe and Eco Driving Behavior through Large-scale Data using Unsupervised Learning

123 Giota Konstantakopoulou, Eva Michelaraki and George Yannis

Exploring the impact of fuel price on driver harsh behaviour in Greece

124 Eva Michelaraki, Thodoris Garefalakis and George Yannis

Quantifying the relationship between task complexity and coping capacity on crash risk: A structural equation modelling approach

#### 126 Eva Michelaraki, Thodoris Garefalakis, Tom Brijs and George Yannis

A deep and machine learning approach to detect crash risk based on smartphone sensors and in-vehicle cameras

S5C - Logistics & Supply Chain management 2

Room: Byzantio I

Session Chairman: Amalia Polidoropoulou

**Rapporteur: Sofoklis Dais** 

142 Αλεξάνδρα Γριβογιάννη, Παναγιώτης Παπαντωνίου, Δημοσθένης Παύλου and Χριστίνα Γεωργοπούλου

Διερεύνηση Χαρακτηριστικών Μεταφοράς Αγαθών μέσω Μη Επανδρωμένου Αεροσκάφους

#### 164 Marina Kouta

European Logistics Frameworks and their Interconnections: A Critical Analysis for Greece

178 Michail Perdikopoulos, Pavlos Fragkiadoulakis, Georgios Livitsanos, Stylianos Doulgeris, Giorgos Mellios and Leonidas Ntziachristos

Evaluation of the impact from vehicle load, road grade and cost parameters in the application of Traveling Salesman Problem for sustainable green truck routing









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

# 216 Angelos Amditis, Anastasia Roukouni, Lluc Segura Renau, Marc Arona Lanau, Montserrat Anglès and Giannis Kanellopoulos

From fragmentation to integration: navigating the way towards automated freight transport and logistics

#### 236 Katerina Batzou and Eftihia Nathanail

Integrated Passenger and Freight Transport Scenarios Assessment

#### 14 Georgia Ayfantopoulou, Dimos Touloumidis, Vasileios Giannoudis and Zisis Maleas

Meta Model Suite: Facilitating Sustainable Urban Logistics Planning Through the Adoption of the Physical Internet Paradigm

### S5D - Electromobility 2

Room: Byzantio II

Session Chairman: Andreas Nikiforiadis

**Rapporteur: Orfeas Karountzos** 

### 92 Anastasios Kallianiotis, Christos Gioldasis, Thanos Athanasatos, Zoi Christoforou and Maria

Giannoulaki

Electric Micromobility Life Cycle Assessment Calculator

#### 148 Christos Kokkinidis and Konstantinos Gkyrtis

Impact of electrical heavy-duty vehicles on road status

# 171 Anastasia Nikolaidou, Samouel-Alexios Salem, Christiana Konstantinidou, Dimitra Komnianou, Michalis Karampasis and Ifigeneia Balampekou

Driving the Future: The Integration of E-Buses in Thessaloniki's Urban Mobility Landscape

### 223 Mihail Bratitsis, Georgios Spyropoulos, Evangelos Bekiaris and Ioannis Kaldellis

Improving the environmental performance of island electromobility

#### 225 Eleni Chalkia, Athanasios Tamvakos and Maria Panou

Training material and assessment for smart charging Vehicle-to-Everything (V2X)

#### 228 Alejandro Prieto Mota, Michael Hardinghaus and Rita Cyganski

Locating Public Charging Stations for EVs: A Transferable Approach to Specify Micro Locations in Public Space

#### 12:30 - 14:00 Light Lunch

14:00 - 15:30

### S6A - Sustainability in Transportation 6

Room: Makedonia II

Session Chairman: Apostolos Papagiannakis

Rapporteur: Maria Stavara

### 155 Vasileios Charpidis, Emmanouil Migkos and Ioannis Politis

Mobility profile of spectators at two football stadiums in the city of Thessaloniki, Greece









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

#### 156 Nikolaos Gavanas, Marianna Tsampira and Konstantina Anastasiadou

Improving the attractiveness of public transportation through innovative bus shelter design

#### 165 Tatiana Moschovou, Xenia Karekla and Konstantinos Gkiotsalitis

A literature review and definition of Key Performance Indicators for the scheduling integration of public transport and shared mobility services

# 172 Anastasia Nikolaidou, Yiannis Toskas, Panagiotis Papaioannou, Ifigeneia Balampekou, Michalis Karampasis, Dimitra Komnianou, Christiana Konstantinidou and Samouel-Alexios Salem

Evaluating the Effectiveness of Front-Door Boarding in Reducing Fare Evasion: A Case Study from Thessaloniki, Greece

# 187 Antonios Trakakis, Konstantinos Apostoleris, Athanasios Antonopoulos, Konstantinos Kepaptsoglou and Basil Psarianos

Curve Radius, Socioeconomics, and Driving Culture: A Speed Analysis on Interchange Ramps in Greece

# 196 Georgios Christomanos, Georgios Nikolaou, Apostolos Anagnostopoulos, Athanasios Theofilatos and Pantelis Kopelias

Public perception and anticipated acceptance of low-emission zone implementation in a medium-sized Greek city

# 201 Dimitrios Nalmpantis, Evangelia Beli, Iason Tamiakis, Giancarlo Masi, Maria Grazia Pirina, Roberto Solinas, Elif Kayhan, Esra Erdem, Ersel Aydın, Eleni Anoyrkati and Nefeli Dimitriadi

Evaluating WalkingBus pilots in Greece, Italy, and Türkiye: a review of active mobility pilot applications for children

#### 233 Christina Bakatsi, Orfeas Karountzos and Christina Iliopoulou

Robust Public Transport Accessibility to Healthcare Services: The Case of Athens, Greece

#### S6B - Sustainability in Transportation 7

Room: Byzantio I

**Session Chairman: Nikos Gavanas** 

**Rapporteur: Vasilis Psonis** 

#### 214 Georg Anagnostopoulos and Nikolas Geroliminis

Propagation of perturbations in far-from-equilibrium multispecies traffic systems: a simulation approach

#### 215 Dimitris Margaritis, Dimitra Lambropoulou and Evangelos Bekiaris

Analysis Of Small Size Particle Concentrations at the Airport of Thessaloniki

### 217 Anastasia Roukouni and Oded Cats

Navigating public acceptance of low-car policies: Lessons from Amsterdam

#### 218 Ioanna Moscholidou, Ioanna Pagoni and Amalia Polydoropoulou

Seaplanes in Greece: From Vision to Implementation









# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

# 219 Amalia Polydoropoulou, Athena Tsirimpa, Ioanna Mosholidou, Antonis Richetta, Ioannis Lymaxis and Ioanna Fergadiotou

Who Pays for the Commons? Business Model and Financing for Mobility as a Commons Schemes

#### 227 Apostolos Papagiannakis and Georgios Michailidis

Implementing Transit Oriented Development around Metro stations in the city of Thessaloniki, Greece

## 238 Maria Morfoulaki, Glykeria Myrovali, Yannis Tyrinopoulos, Christina Milioti and Evgenia Chondropoulou

The contribution of Digital Destination Cards to tourism growth and sustainable mobility: The case of Thessaloniki

#### 188 Martha Gika, Orfeas Karountzos and Konstantinos Kepaptsoglou

Assessing Socio-Economic Influences on Metro Ridership: A GIS-Based Approach in the Athens Metropolitan Area

#### S6C - Cross-Cutting Topics and Emerging Research in Transportation

Room: Byzantio II

Session Chairman: Mary Papandreou Rapporteur: Parmenion Delialis

#### 100 Evangelos Spyrou and Vassilios Kappatos

Modeling COVID-19 Spread Using the Discrete-Time SIR Epidemic Model

### 101 Nikolaos Angelopoulos and Vassilios Kappatos

Crack growth and progressive damage detection for maritime applications using Acoustic Emission

### 102 Nikolaos Angelopoulos, Athanasia Maria Moustaka and Vassilios Kappatos

Experimental assessment of biofouling mitigation on metallic surfaces of marine structures using an ultrasonic antifouling system

### 104 Nikolaos Avgeris and Fotini Kehagia

Σχεδιασμός Πίστας Μηχανοκίνητου Αθλητισμού Κατηγορίας 1 Σύμφωνα με το Κανονιστικό Πλαίσιο της FIA

### 116 Μαρία Αγγελοπούλου, Σταυρούλα Γαρείου and Χριστίνα Μηλιώτη

ΣΥΓΚΡΙΣΉ ΠΟΣΟΣΤΩΝ ΜΕΙΩΣΉΣ ΑΕΡΟΠΟΡΙΚΉΣ ΕΠΙΒΑΤΙΚΉΣ ΚΙΝΗΣΉΣ ΜΕΤΑΞΎ ΕΥΡΩΠΗΣ – ΑΣΙΑΣ ΚΑΤΆ ΤΗ ΠΕΡΙΟΔΟ ΠΑΝΔΗΜΙΑΣ COVID-19.

# 119 Afroditi Anagnostopoulou, Athanasios Ballis, Xenophon Kitsios, Anastasia Bolovinou, Vassilis Kappatos and Angelos Amditis

Open Science in transport research: insights from the Maritime and CCAM pilot cases

#### 134 Maria Boile and Vasiliki-Maria Perra

Reskilling and upskilling of port workforce: Surveying the skills requirements for the industry's green and digital transition in Greece





Οι μεταφορές στην εποχή της Τεχνητής Νοημοσύνης



# 12<sup>th</sup> INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

Transportation in the era of Artificial Intelligence

### 140 Theocharis Tsenis and Vassilios Kappatos

Correlation and Vectorization of Acoustic Emission Events During the Normal Operation of Large Inland Transport Infrastructure

15:30 - 16:00 Coffee Break

16:00 - 17:00

**Closing Ceremony – Paper Awards** 

Room: Makedonia I & II

Session Chairmen: Evangelos Mitsakis, Konstantinos Kepaptsoglou



Οι μεταφορές στην εποχή της Τεχνητής Νοημοσύνης



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