

12th International Congress on Transportation Research

October 16th - 18th 2025

Electra Palace Hotel, Thessaloniki, Greece



Congress Program

Under the auspices of:



HELLENIC REPUBLIC
Ministry of Infrastructure and Transport



**GENERAL SECRETARIAT FOR
RESEARCH AND INNOVATION**



REGION OF **CENTRAL MACEDONIA**



CITY OF **THESSALONIKI**



ΙΝΣΤΙΤΟΥΤΟ ΒΙΩΣΙΜΗΣ ΚΙΝΗΤΙΚΟΤΗΤΑΣ
και ΔΙΚΤΥΩΝ ΜΕΤΑΦΟΡΩΝ
HELLENIC INSTITUTE OF TRANSPORT

ΣΥΛΛΟΓΟΣ ΕΛΛΗΝΩΝ ΣΥΓΚΟΙΝΩΝΙΟΛΟΓΩΝ
HELLENIC INSTITUTE OF
TRANSPORTATION ENGINEERS



The Event

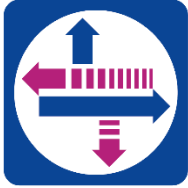


The Hellenic Institute of Transport (CERTH-HIT) and the Hellenic Institute of Transportation Engineers (HITE) co-organize the "12th International Congress on Transportation Research" (ICTR 2025), which will be held on October 16-18, 2025, in Thessaloniki, Greece. The spotlight theme of the 2025 Congress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



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.

Welcome Letters

Evangelos Mitsakis

Research Director CERTH-HIT. ICTR 2025 Organizing Committee Chair.

Dear friends and colleagues,

It is with great pleasure and anticipation that I welcome you to the 12th International Congress on Transportation Research (ICTR 2025), hosted this year by CERTH-HIT in Thessaloniki. For more than two decades, ICTR has served as a key meeting point for the national and global transportation research community, enabling knowledge exchange, fruitful dialogue, and the showcasing of innovative work.

This year's spotlight theme, "Transportation in the Era of Artificial Intelligence," captures one of the most transformative forces shaping our field. AI is redefining how we plan, operate, and experience transportation systems: from data-driven decision-making and predictive modelling to automation, new services, and policy innovation.

As Chair of the Organizing Committee, I would like to express my heartfelt thanks to all members of the Organizing Committee for their efforts and commitment, in order to make ICTR 2025 the most successful conference of the series. I would also like to thank Professor Konstantinos Kepaptsoglou and the members of the Scientific Committee for their dedication and persistence, shown practically in the endless preparatory meetings that we have held during the last year. Finally, I would like to thank Dr. Mary Panou, Acting Director of CERTH-HIT and Mr. Athanasios Tsianos, President of HITE, for their valuable support. I also warmly acknowledge the support of our sponsors and partners.

I invite you all to actively engage, exchange perspectives, and make the most of the opportunities this event offers. Together, let us shape the future of mobility in the age of AI.

Sincerely,

Evangelos Mitsakis



Research Director CERTH-HIT. ICTR 2025 Organizing Committee Chair.



Konstantinos Kepaptsoglou

Professor of Transport Engineering, National Technical University of Athens. ICTR 2025 Scientific Committee Chair.



Dear colleagues and Congress participants,

On behalf of the Scientific Committee, it is a great pleasure to welcome you to the 12th International Congress on Transportation Research (ICTR 2025). This event continues to be a vibrant platform for presenting original research, exchanging innovative ideas, and fostering collaborations that advance the state of the art in transportation.

This year's spotlight theme, "Transportation in the Era of Artificial Intelligence," is both timely and forward-looking. The integration of AI into transport research and practice opens up new possibilities for data analysis, modelling, operations, safety, user services, and policymaking. The scientific programme reflects this dynamic landscape, featuring diverse

sessions that cover all transport modes, technologies, and policy areas.

I sincerely thank the members of the Scientific Committee for their rigorous work, the Organizing Committee for their excellent collaboration, and all authors and presenters for their contributions.

I encourage everyone to participate actively, share knowledge, and explore synergies. Together, we can make ICTR 2025 an inspiring and impactful experience for the entire community.

Regards,

Konstantinos Kepaptsoglou

Professor of Transport Engineering, NTUA. Chair of the ICTR 2025 Scientific Committee.

Mary Panou

Acting Director of CERTH-HIT, Director of Research

Dear colleagues and Congress attendees,

On behalf of the Hellenic Institute of Transport (CERTH-HIT), I'm excited to share this year's ICTR 2025 conference experience with you, in the lively city of Thessaloniki. As Acting Director of HIT, I am honoured that our institute once again co-organizes this flagship event, bringing together researchers, experts, innovators and policymakers from Greece, Europe, and beyond.

Breakthroughs in artificial intelligence continue to transform the technological landscape, affecting greatly the way we live and work, thus the transportation sector stands at the forefront of this technological evolution. AI is changing the definition of efficiency, safety, inclusivity, and sustainability in all forms of transportation, from driverless cars and intelligent logistics systems to data-driven urban mobility solutions. With this year's targeted focus on "Transportation in the Era of Artificial Intelligence", ICTR 2025 offers a vital platform for exchanging ideas, showcasing cutting-edge research, and exploring real-world applications that will influence mobility in the years to come.

I would like to thank the Organizing and Scientific Committees for their exceptional work, and all our partners and sponsors for their valuable support.

I am sure that ICTR 2025 will be inspiring and motivating for all of us and I look forward to the insights and innovations that will emerge!

Warm regards,

Mary Panou



Acting Director of CERTH-HIT.



Athanasios Tsianos

President of the Hellenic Institute of Transportation Engineers (HITE)



Dear ICTR participants and colleagues,

It is a great pleasure to welcome you to the 12th International Congress on Transportation Research (ICTR 2025).

The ICTR has become a leading event for transport research and innovation in Greece, attracting international participation and recognition. It is organized every two years by the Hellenic Institute of Transportation Engineers (HITE) and the Hellenic Institute of Transport of the Centre for Research and Technology Hellas (CERTH-HIT). The aim of the Congress is to promote and share knowledge and innovation generated through research, technical expertise and professional experience, with the ultimate goal of achieving safer, more efficient, faster, and more sustainable transport systems.

Under the theme “Transportation in the Era of Artificial Intelligence,” ICTR 2025, explores how AI is driving innovation, transforming transport systems, and shaping the next generation of mobility. Artificial Intelligence is rapidly revolutionizing the way we plan, operate and experience transportation - enabling smarter infrastructure, predictive management and personalized mobility services. The Congress serves as a unique platform for dialogue and the exchange of knowledge that brings these advancements closer to implementation.

I would like to express my sincere thanks to CERTH-HIT for our strong and long-standing partnership, to the Organizing and Scientific Committees for their dedication and hard work, to all sponsors for their generous support, and to all participants for their active contribution to the success of the Congress.

I wish you fruitful discussions and a memorable stay in Thessaloniki.

Sincerely,

Athanasios Tsianos



President of the Hellenic Institute of Transportation Engineers (HITE).

Programme Overview

Thursday 16 October (1 st 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: Enabling Innovation in Multimodal Transport and Logistics: A Multi- Disciplinary Approach to Ecosystemic Change	Workshop III: Mobilising innovation: The role of public- private partnerships in reshaping urban mobility	Workshop V: Multimodal Traffic Management Cluster workshop	Workshop VII: Low-Emissions Zones
11:00	11:30	Break			
11:30	13:30	Workshop I: Enabling Innovation in Multimodal Transport and Logistics: A Multi- Disciplinary Approach to Ecosystemic Change	Workshop III: Mobilising innovation: The role of public- private partnerships in reshaping urban mobility	Workshop V: Multimodal Traffic Management Cluster workshop	Workshop VII: Low-Emissions Zones
13:30	14:30	Break			
14:30	16:30	Workshop II: Unlocking Mobility Innovation: Analysing and sharing research data and defining MaaS business models	Workshop IV: Fairness & Transparency in Transport Research	Workshop VI: MITHOS workshop: Restructuring Thessaloniki's public transport system	Workshop VIII: CityMinds summer school: Empowering Innovation & Entrepreneurship knowledge towards Urban mobility and City Logistics transformation. Tools-Methods- Outcomes

Friday 17 October (2 nd day – Sessions)					
Room Name		Makedonia I	Makedonia II	Byzantio I	Byzantio II
08:30 – 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	13:00	Opening Ceremony – Keynotes – Awards Makedonia I-II			
13:00	14:30	Light Lunch			
14:30	16:00	S2A – Sustainability in Transportation 2	S2B – Traffic Safety 2	S2C – Big data in Transportation	S2D – Resilience
16:00	16:30	Coffee Break			
16:30	18:00	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 rd day – Sessions)					
Room Name		Makedonia I	Makedonia II	Byzantio I	Byzantio II
08:30 – 14:30 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			

Day to Day Programme

Thursday 16 October (1 st day – Workshops)		
Room	Time Slot	Workshop Information
Makedonia I	09:00 - 11:00 & 11:30 - 13:30	Workshop I: Enabling Innovation in Multimodal Transport and Logistics: A Multi-Disciplinary Approach to Ecosystemic Change <i>Session Organizers: Dr. Georgia Ayfantopoulou, Mr. Sofoklis Dais, Ms. Katerina Batzou [Hellenic Institute of Transport (HIT)/ Centre for Research and Technology Hellas (CERTH)].</i>
Makedonia I	14:30 - 16:30	Workshop II: Unlocking Mobility Innovation: Analysing and sharing research data and defining MaaS business models <i>Session Organizers: Evdokimos Konstantinidis [Lab of Medical Physics and Digital Innovation, School of Medicine, Aristotle University of Thessaloniki], Afroditi Stamelou, Vassilis Mizaras [Hellenic Institute of Transport (HIT)/ Centre for Research and Technology Hellas (CERTH)].</i>
Makedonia II	09:00 - 11:00 & 11:30 - 13:30	Workshop III: Mobilising innovation: The role of public-private partnerships in reshaping urban mobility <i>Session Organizers: EIT Urban Mobility.</i>
Makedonia II	14:30 - 16:30	Workshop IV: Fairness & Transparency in Transport Research <i>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)].</i>
Byzantio I	09:00 - 11:00 & 11:30 - 13:30	Workshop V: Multimodal Traffic Management Cluster workshop <i>Session Organizers: Dr. Evangelos Mitsakis, Mr. Dimitris Tzanis [Hellenic Institute of Transport (HIT)/ Centre for Research and Technology Hellas (CERTH)].</i>
Byzantio I	14:30 - 16:30	Workshop VI: MITHOS workshop: Restructuring Thessaloniki's public transport system <i>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)].</i>
Byzantio II	09:00 - 11:00	Workshop VII: Low-Emissions Zones <i>Session Organizers: Dr. Josep Maria Salanova Grau [Hellenic Institute of Transport (HIT)/ Centre for Research and Technology Hellas (CERTH)].</i>
Byzantio II	11:30 - 13:30 & 14:30 - 16:30	Workshop VIII: CityMinds summer school: Empowering Innovation & Entrepreneurship knowledge towards Urban mobility and City Logistics transformation. Tools-Methods-Outcomes <i>Session Organizers: Dr. George (Yiorgos) Barboutidis [Hellenic Institute of Transport (HIT)/ Centre for Research and Technology Hellas (CERTH)].</i>

Friday 17 October (2nd 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 Kartounis, Stergios Roumeliotis, Maria Giannoulaki, Zoi Christoforou and Ektoras Chandakas

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

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: Eva Micheleraki

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 AI-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: AI-Driven Public Transport Optimization

143 Vasiliki Mantouka, Lynn Fayed, Panagiotis Fafoutellis, Charis Chalkiadakis, 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: Evangelos Mintsis

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

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 Christodouloupoulos, 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 Gantzios, 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 – 13:00

Opening Ceremony – Keynotes – Awards

Room: Makedonia I & II

Session Chairmen: Evangelos Mitsakis, Konstantinos Kepaptsoglou

11:00-11:15 Conference objectives and welcome by the Organisers

Dr. Evangelos Mitsakis, President of the ICTR 2025 Organizing Committee

Prof. Konstantinos Kepaptsoglou, President of the ICTR 2025 Scientific Committee

Dr. Mary Panou, Acting Director CERTH-HIT

Dr. Evangelos Bekiaris, President of the Board of Directors CERTH

Mr. Athanasios Tsianos, President of HITE

11:15-11:30 Welcome address

Mr. Apostolos Tzitzikostas, Commissioner for Sustainable Transport and Tourism - European Commission
Representatives from Ministry of Transport

Representatives from Ministry of the Interior (Macedonia & Thrace)

Mr. Stavros Kalafatis, Minister of Development - Responsible for Research and Innovation

Ms. Athena Athanasiadou - Aidona, Region of Central Macedonia - Regional Governor

Mr. Paris Biliadis, Region of Central Macedonia - Deputy Regional Governor for Infrastructure and Networks

Mr. Nikolaos Tzollas, Region of Central Macedonia - Deputy Regional Governor for Digital Governance

Mr. Spyros Vougiadis, Municipality of Thessaloniki - President of the Municipal Council

Dr. Georgia Ayfantopoulou, President of the Regulatory Authority for Railways - RAS

11:30-12:00 Keynote Speech: Prof. George Giannopoulos, Academy of Athens The role of AI in creating sustainable future human mobility
12:00-12:30 Keynote Speech: Prof. Nikolas Geroliminis, EPFL Perimeter control and ride-hailing rebalancing for large-scale multi-modal urban networks
12:30-13:00 Honorary Awards ICTR2025
13:00 – 14:30 Light Lunch
14:30 – 16:00
S2A - Sustainability in Transportation 2 Room: Makedonia I Session Chairman: Socrates Basbas Rapporteur: Panagiotis Karetsos
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 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
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
S2B - Traffic Safety 2 Room: Makedonia II Session Chairman: Grigorios 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 Transportation

Room: Byzantio I

Session Chairman: Josep Maria Salanova Grau

Rapporteur: Viktoria Petkani

65 Julia Porto, Apostolos Ziakopoulos and George Yannis

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

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

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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

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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

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

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

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

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

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

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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

16:00 – 16:30 Coffee Break

16:30 – 18:00

S3A - Sustainability in Transportation 3

Room: Makedonia I

Session Chairman: Kornilia Maria Kotoula

Rapporteur: Maria Konstantinidou

47 Konstantinos Skalkos, Dimitrios Kollias and Zoi Christoforou

Study of Bicycle Navigation Algorithms and Suggestions for Improvement

81 Josep 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

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Seasonal Parking demand characteristics in private lots

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Session Chairman: Evangelos Mintsis

Rapporteur: George Tzanis

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Rapporteur: Alexandros Deligiannis

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09:00 – 10:30

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Session Chairman: Georgios Georgiadis

Rapporteur: Dimitris Tzanis

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Session Chairman: Fotini Kehagia

Rapporteur: Afroditi Stamelou

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Session Chairman: Sofoklis Dais

Rapporteur: Orestis Tsolakis

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80 Josep 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
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Session Chairman: Orestis Tsolakis

Rapporteur: Sofoklis Dais

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Session Chairman: Christina Iliopoulou

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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
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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
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129 Argyrios Balatsoukas and Giannis Adamos

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S6C - Cross-Cutting Topics and Emerging Research in Transportation

Room: Byzantio II

Session Chairman: Maria Papandreou

Rapporteur: Parmenion Delialis

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

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From Ethics to Safety: AI-Driven Risk Prediction in Aviation

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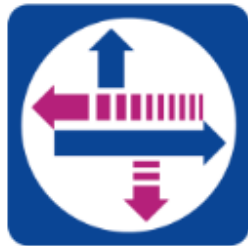
16:00 – 17:00

Closing Ceremony – Paper Awards

Room: Makedonia I & II

Session Chairmen: Evangelos Mitsakis, Konstantinos Kepaptsoglou

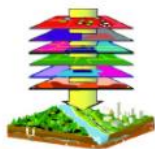
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