

10th INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH

September 1st-3rd 2021

Hotel Mediterranean, 35-37 Kos str.
Rhodes, Greece

Final Congress Program

Under the auspices of the Ministry of Infrastructure and Transport

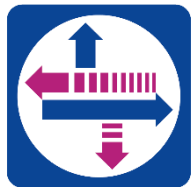


Under the auspices of the Region of South Aegean



About the organizers

Hellenic Institute of Transport (HIT)



CERTH/HIT Hellenic Institute of Transport

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.

Hellenic Institute of Transportation Engineers (HITE)

The Hellenic Institute of Transportation Engineers was founded in 1976 in Athens, Greece. It currently includes over 600 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.



HELLENIC INSTITUTE OF TRANSPORTATION ENGINEERS

Welcome letters



Dear all,

It is my great pleasure to welcome you to the 10th International Congress on Transportation Research (ICTR2021).

This year the conference focuses on “Future Mobility and Resilient Transport and the Transition towards innovation”. Aiming at accelerating positive change towards more environmentally friendly and sustainable transport systems, the conference is highlighting innovative approaches, new developments and trends that are arisen from research in almost all aspects of transport and mobility systems of today and of the next decade.

In view of the digital and green agenda of Europe for transport and mobility and in the context of the new challenges raised due to Covid-19, research and business innovation community of the ICTR2021 will discuss pragmatic solutions and the way of successfully transition towards future mobility in the smart cities.

Throughout the years, the ICTR conference managed to be established as one of the most important conferences in the transport sector, attracting a large number of participants from research and academia throughout Greece, Europe and internationally.

This year:

- More than 150 papers will be presented at the conference
- One full pre-conference day dedicated to thematic workshops is organized, on:
 - autonomous mobility applications,
 - living labs creation and operation for managing city challenges in city logistics and supporting emerging passengers’ mobility solutions adoption,
 - new decision-making tools for mobility planning,
 - electro mobility and innovative sustainable mobility solutions for citizens and tourists.
- The three days of the conference program set up an excellent basis for productive dialog of domain experts and guarantees important conference results that will assist the recovery, efficient transition to change and the resilience of transport sector.
- Special Issues of recognised journals welcome selected papers of the conference.

ICTR2021 is hosted on the beautiful island of Rhodes and benefits from the enthusiastic support of the citizens, the local stakeholders and the active mobility industry. It is organized in hybrid mode enabling the participation either with physical presence or through remote connection.

Join the conference and be part of all the latest developments in transport and mobility.

Dr. Georgia Ayfantopoulou
Research Director/Deputy Director CERTH/HIT
President of ICTR 2021 Organizing Committee



Dear friends,

I am pleased to welcome you to the 10th ICTR congress (ICTR2021) that is going to take place in the wonderful city of Rhodes.

As in previous years, ICTR provides an excellent forum for exchanging information and discussion on a wide variety of Transportation Research topics, representing the latest developments and future trends in Transportation Research section. ICTR21 will be a unique conference for all colleagues involved in the field of Transportation Research, covering several topics as : Big data analytics and Artificial Intelligence, Climate neutral and energy efficient transport and infrastructure, Innovative and interconnected mobility services, Intelligent transport systems, On-demand freight transport and logistics, Resilient transport systems and infrastructure, Simulation environments and new modeling tools, Sustainable urban mobility, Transport planning and policy, Transport safety, Transportation and mobility in the COVID-19 era etc.

With more than 400 experts, representing many countries from all over the world, participating in such a conference, we can once again expect to achieve excellent results.

As president of the scientific committee of ICTR2021, I know that the success of the conference depends ultimately on the many people who have worked with us in planning and organizing both the technical program and supporting social arrangements.

I personally thank:

- Scientific Committee for their thorough and timely reviewing of the papers.
- Organizing Committee members who have all worked extremely hard for the details of important aspects of the conference programs and social activities.
- Our sponsors who have helped us to keep down the costs of ICTR2021 for all participants.

I am looking forward to meeting you in Rhodes during ICTR2021 and to sharing a most pleasant, interesting, and fruitful conference.

Prof. Nikolaos Eliou

Department of Civil Engineering of University of Thessaly

President of ICTR 2021 Scientific Committee

ICTR2021 Papers to be considered for Publication at Special Issues of Prestigious International Journals

Selected papers from ICTR 2021 will be invited to be submitted to special issues organised by **four prestigious international journals**. The following special issues are foreseen:



Sustainability

Special Issue "Future Mobility and Resilient Transport: Transition to Innovation" (Impact factor: 3.251)

View the [Call for paper here](#) (Submission deadline: 31 Dec 2021)



**Journal of Advanced
Transportation**

Journal of Advanced Transportation

Special Issue "Sustainable Mobility in Alternative Transport Systems" (Impact factor: 2.419)

View the [Call for paper here](#) (Submission deadline: 17 Dec 2021)



Case Studies on Transport Policy

Special Issue "Sustainable Transportation" (CiteScore: 2.9)



*future
transportation*

Future Transportation

Special Issue 'Future Mobility and Resilient Transport'

(Submission deadline: 31 Dec 2021)

Papers for the above Special Issues will be selected via a ranking process conducted by a Scientific Team comprising members of the Scientific and Organizing Committees. The authors will be informed soon about the process and the submission guidelines.

| Day 1: Wednesday 01/09/2021 09:00-17:30 EEST | | |
|---|-------------|---|
| Pre-conference Special Sessions/Workshops supported by dedicated projects (full program at www.ictr.gr) | | |
| Place: Region of South Aegean, Dioikitirio Square, Rhodes | 09:30-12:00 | Workshop VIII - Sustainable Mobility for citizens and tourists (DIAGORAS OP South Aegean, NEMO OP South Aegean, SUSTOURISMO Interreg Adrion) Session Organizer: Dr. Georgia Ayfantopoulou, Hellenic Institute of Transport/ Centre for Research and Technology Hellas (CERTH) |
| Place: Mediterranean Hotel, Kos str. 35-37, Rhodes | 09:00-13:30 | Workshop I - Challenges & Lessons Learned in CCAM (SHOW Horizon2020) Room: Muses I Session Organizer: Dr. Evangelos Bekiaris, Director, Hellenic Institute of Transport (HIT)/ Centre for Research and Technology Hellas (CERTH) |
| | 14:00-15:30 | Workshop II - Living Labs: enabling and accelerating innovation for on-demand city logistics. (City Logistics working group POLIS network) Room: Muses I Session Organizer: Giacomo Lozzi, Senior Project Manager - Coordinator Urban Freight -POLIS |
| | 12:00-14:30 | Workshop III - Enhancing transport innovation capacity of regions, Final Dissemination Event (INNOTRANS Interreg Europe) Room: Muses II Session Organizer: Eleni Anoyrkati, MBA, PhD / Business Development and Operations Manager of CUE |
| | 14:30-17:30 | Workshop IV - Supporting sustainable mobility participatory planning (e-smartec Interreg Europe) Room: Muses II Session Organizer: Dr. Maria Morfoulaki |
| | 09:00-11:00 | Workshop V - Modelling Emerging Transport Solutions for Urban Mobility (MOMENTUM Horizon2020) Room: Bridges Session Organizer: Dr. Josep Maria Salanova Grau, Hellenic Institute of Transport/ Centre for Research and Technology Hellas (CERTH) |
| | 11:30-13:30 | Workshop VI - HARMONY: Disruptive Technologies in Transport in 2021: From the pandemic to the new mobility era (HARMONY Horizon2020) Room: Bridges Session Organizer: Prof. Amalia Polydoropoulou, Department of Shipping, Trade and Transport, Transportation and Decision-making lab, University of the Aegean |
| | 14:30-16:30 | Workshop VII - Innovations in Sustainable Urban Mobility Plans for low-carbon urban transport (INNOVASUMP Interreg Europe) Room: Bridges Session Organizer: Prof. Panos Papaioannou, Aristotle University of Thessaloniki |
| <p>18:30 – 19:30 Conference welcome cocktail Open space of Mediterranean Hotel, Kos str.35-37</p>   | | |

| | | 9:00 | 11:00 | 11:30 | 12:00 | 13:30 | 14:00 | 15:30 | 16:00 | 17:30 | 18:30 | 19:30 |
|--|----------|------|--------------|--------|-------------|-------|--------------|-------|--------------|-------|---------------|-------|
| Mediterranean Hotel, Kos str. 35-37, Rhodes | Muses I | WS I | Coffee break | WS I | Lunch break | WS II | Coffee break | WS IV | Coffee break | WS IV | Welcome drink | |
| | Muses II | | | WS III | | WS IV | | WS IV | | | | |
| | Bridges | WS V | WS VI | WS VII | WS VII | | | | | | | |
| Region of South Aegean, Dioikitirio Square, Rhodes | | | WS VIII | | | | | | | | | |

Day 2: Thursday 02/09/2021

09:00-11:00 EEST

Conference Opening Ceremony

Room: Muses

09:00-09:15 / Conference objectives and welcome from the organizers

- Georgia Ayfantopoulou, President of Organizing Committee

09:15-09:30 / Science and Research development for transport and mobility supporting the transition towards smart sustainable mobility and logistics

- Evangelos Bekiaris, Director CERTH/HIT
- Panagiotis Papantoniou, President HITE

09:30-10:00 / Keynote speech

- Mohamed Mezghani, Secretary General UITP

10:00-10:30 / The role that the conference plays on transport and mobility policy for the country, the region, and the cities

- Intervention by the Minister of Ministry of Infrastructure and Transport, Kostas A. Karamanlis
- Intervention by the General Secretary of Spatial Planning and Urban Environment, Efthymios Bakoyiannis
- Intervention by the Governor of Region of the South Aegean, George Hatzimarkos
- Intervention by the Mayor of Rhodes, Antonios Kampourakis

10:30-11:00 Honorary Awards

- ICTR2021 will honor:
- Mr. Spyros Vougias
 - Mr. Vassilis Evmolpidis

11:00-11:30 Coffee break

11:30-13:30

Session I (A) – Intelligent transport systems

Room: Muses I

Session Chairman: E. Mitsakis

Rapporteur: E. Sakellariou

19 A Discrete Differential Dynamic Programming Approach for GLOSA Systems with Stochastic Signal Switching Times

Panagiotis Typaldos, Vasileios Volakakis, Markos Papageorgiou and Ioannis Papamichail

138 Differences between Manual and Automated Execution of Dynamic Eco-driving Advice

Evangelos Mintsis, Eleni I. Vlahogianni and Evangelos Mitsakis

140 Analysis of strengths and weaknesses, opportunities and threats from the application of artificial intelligence in transport, in the light of the use of the autonomous vehicle in people's daily lives-Formulation of emerging research questions

Ioannis Matsas, Georgios Mintsis, Christos Taxiltaris and Sokratis Basbas

81 Ex-ante Cost-Benefit Analysis of Cooperative Intelligent Transport Systems

Areti Kotsi and Evangelos Mitsakis

104 Evaluation and Future Prospects of the Greek National Access Point for ITS Data

Georgia Ayfantopoulou, Chrysostomos Mylonas and Evangelos Mitsakis

108 Future Use Cases for Cooperative Intelligent Transport Systems based on Unmanned Aerial Vehicles

Chrysostomos Mylonas, Evangelos Mitsakis and Georgia Ayfantopoulou

10 Data-driven pedestrian modeling: Analysis of pedestrian behavior under various conditions
Vasileia Papathanasopoulou, Ioanna Spyropoulou, Harris Perakis and Vassilis Gikas

Session I (B) – Sustainable urban mobility, implementation, and new synergies

Room: Muses II

Session Chairman: M. Morfoulaki

Rapporteur: M. Chatziathanasiou

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Georgia Ayfantopoulou, Evripidis Magkos, Josep Maria Salanova Grau, Konstatinos Lympopoulos and Dimitrios Bechtsis

225 Needs, requirements and expectations from the use of e-scooters: The design challenges in the island of Rhodes
Olga Maria Giannakari, Maria Tsami, Maria Papandreou

137 Use of Bike-Share Trip Data to Improve Bicycle Infrastructure
Jennifer Weast and Nikiforos Stamatiadis

12 An overview of railway transportation systems for steep gradients in operation and under construction worldwide, at the end of 2019
Achilleas Spyriadis and Christos Pyrgidis

42 Building technological solutions for promoting sustainable tourism through sustainable mobility; the SUSTOURISMO app paradigm for Thessaloniki case
Kornilia Maria Kotoula, Glykeria Myrovali and Maria Morfoulaki

150 Urban Planning Standards and transportation planning
George Yannis, Athanasios Tsianos and Konstantinos Serraos

173 Estimating future mode choice using the Multinomial Logit Model: the case of Kavala City, Greece
Konstantinos Takatzoglou, George Barmpas, Nikolaos Koutroumpis, Rafail Katkadigkas and Dimitrios Tsakiris

27 Public Engagement for Sustainable Mobility Policy Design: insights from West Midlands, UK
Eleni Anoyrkati, Vladislav Maras, Tessa Lukehurst and Efstratios Arampatzis

Session I (C) – Simulation environments and new modelling

Room: Bridges

Session Chairman: G. Ayfantopoulou

Rapporteur: A. Nikiforiadis

111 Use of Macroscopic Fundamental Diagrams for the Assessment of Road Network Link Criticality
Chrysostomos Mylonas, Konstantinos Kepaptoglou and Evangelos Mitsakis

58 Numerical analysis and shape optimization of a wing's leading-edge morphing rib structure with the assistance of Shape Memory Alloys
D.G. Stamatelos, N. Stavrou, V. Kappatos

36 Passing Distance Examination over Single and Platooned Heavy Military Vehicles
Stergios Mavromatis, Vassilis Matragos and Panagiotis Pasiias

6 Lane changing and lane choice modelling using data from a swarm of drones: The case of Panepistimiou avenue
Jasso Espadaler Clapés, Emmanouil Barmponakis and Nikolas Geroliminis

47 A simulation approach to compare urban growth in different cities in the new transportation era of connectivity, automation and electrification.

Paraskevi Sarri, Ioannis Kaparias, John Preston and David Simmonds

116 Brunswick simulation scenario for virtual-stops based DRT service with SUMO

Laura Bieker-Walz, Yun-Pang Flötteröd, Johannes Rummel, Olaf Angelo Banse Bueno, Giuliana Armellini and Jakob Erdmann

57 Distance learning on transport safety: the design and development of an informal and e-tool focused on flight safety procedures

I K. Lekea, E. Spyrou, Th. Kyriakidis, D.G. Stamatelos, V. Kappatos

Session I (D) – Poster Session

Room: Epsilon

Session Chairman: G. Botzoris

2 Traffic Impacts due to COVID-19 in South Carolina, USA

Dimitra Michalaka, Joshua Johnson and Todd Anderson

37 Lessons Learned from Bicycle Traffic Rules in OECD Countries

George Yannis, Stergios Mavromatis, Dimitris Tselentis and Stratos Georgiopoulos

95 Challenges and practices for public transport in the city of Thessaloniki during the COVID-19 pandemic period

Aggelos Aggelakakis, Afroditi Anagnostopoulou, Evangelos Spyrou, Konstantia Karagkouni, Georgios Skodras and Maria Boile

124 Identification of relevant scenarios in the framework of automated vehicles to study the emotional state of the passengers

Juan-Manuel Belda-Lois, Sofía Iranzo, Vanessa Jiménez, Begoña Mateo, Javier Silva, Nicolás Palomares, José Laparra-Hernández and Jose Solaz

155 Actively involving citizens in improving sustainable mobility through participatory planning workshops in Thessaloniki

Vasiliki Amprasi, Evangelos Genitsaris, Aristotelis Naniopoulos and Dimitrios Nalmpantis

175 Techno-Economic Feasibility Analysis for Electromobility in the Region of Attica

Virginia Petraki, Panagiotis Papantoniou, Christina Gonidi and George Yannis

17 Evaluation of a ride-sharing service in Thessaloniki: The perspective of both the service provider and the users

Panagiotis Tzenos, Maria Konstantinidou, Athanasios Tolikas, Zisis Maleas and Josep Maria Salanova Grau

21 Validation of the applicability of a Social Force based model in the study of interactions between e-scooters and pedestrians

Georgios Kapousi, Christos Gioldasis, Maria Giannoulaki, Yeltsin Valero and Zoi Christoforou

22 Travel time variability analysis of Thessaloniki's Ring Road
Anastasia Tzanni, Eleni Tsekoura and Evangelos Mitsakis

200 A Multi-objective Optimization Approach for Planning the Shift to Electromobility Considering Financial, Environmental and Infrastructure Elements
Filippos Alogdianakis and Loukas Dimitriou

13:30-14:30 Lunch break

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Session II (A) – Intelligent transport systems

Room: Muses I

Session Chairman: M. Panou

Rapporteur: I. Pagoni

14 Implementation of Safe and Secure Truck Parking Area (SSTPA) and Advanced Traveller Information System (ATIS) in Greece
Athanasios Koukounaris, Marina Kouta, Konstantina Marousi and Yorgos Stephanedes

82 Impacts of autonomous transit services on Urban Networks: The case of Athens, Greece
Maria Oikonomou, Vasileios Mourtakos, Julia Roussou, Apostolos Ziakopoulos, Eleni Vlahogianni and George Yannis

153 Public opinion on Flying Autonomous Vehicles in Greece: a stated preference approach
George Priftis, Armira Kontaxi and George Yannis

56 Infrastructure-Assisted Traffic Management for Cooperative and Automated Driving around Work Zones
Evangelos Mintsis, Leonhard Lücken, Vasilios Karagounis, Kallirroï N. Porfyri, Michele Rondinone, Miguel Sepulcre, Julian Schindler and Evangelos Mitsakis

62 Simulation, analysis, and comparison of ACC and CACC systems using SUMO
Kallirroï N. Porfyri, Evangelos Mintsis, Vasilios Karagounis, Evangelos Mitsakis and Georgia Ayfantopoulou

64 Evaluation of Manual and System Initiated Transitions of Control with the Use of Traffic Simulation
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161 Towards Smartphone-based enhanced GNSS positioning for Eco Driving ITS services
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Session II (B) – Sustainable urban mobility, implementation and new synergies

Room: Muses II

Session Chairman: P. Papaioannou

Rapporteur: I. Kourounioti

209 Action Plan for promoting electromobility in the Region of Attica
Foteini Orfanou, Panagiotis Papantoniou, Eleni Vlahogianni and George Yannis

71 Moving cities forward: how GALILEO satellite technology can advance urban mobility
Josep Laborda, Sergi Paniagua, Michele Tozzi and Charlotte Van Hek

207 Traffic Impact Assessment of Innovative Traffic and Parking Measures in the Center of Athens
George Yannis, Eleni Vlachogianni, Eleni Papatzikou, Panagiotis Papadakis and Maria Oikonomou

87 An indicator framework to monitor and assess cruise visitor mobility pressure at the destination area
Konstantina Derpani and Konstantinos Kepaptsoglou

45 Mobility priorities and weaknesses in University campuses. The case of University of Patras
Maria Ioanna Kalantzi and Panagiotis Papantoniou

178 Policies for sustainable mobility promotion and road safety enhancement at urban intersections
K. Karagiannis, S. Grigoriadis, A.R. Vouza, N. Eliou

180 Roundabouts contribution in road safety enhancement, urban revitalization and sustainable mobility promotion
K. Karagiannis, S. Grigoriadis, A.R. Vouza, N. Eliou

131 Regulatory schemes for multimodal traffic management: opportunities, barriers, and next steps
Alexandros Deloukas, Eirini Kastrouni and Emy Apostolopoulou

Session II (C) – Big Data Analytics and Artificial Intelligence

Room: Bridges

Session Chairman: J.M. Salanova Grau

Rapporteur: F. Orfanou

141 Mining Human Mobility Patterns, Activity Chains and Duration using Smartphone Sensing
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89 Electric Vehicle Demand Forecasting with the Use of Artificial Neural Networks
Konstantinos Christidis, Vasilios Profillidis, George Botzoris and Lazaros Iliadis

40 Transit Quality of Service Assessment Using Smart Data
Ioanna Bazaki, Christos Gioldasis, Maria Giannoulaki and Zoi Christoforou

28 Modelling the Safety Tolerance Zone: Recommendations from the i-DREAMS project
Eva Michelaraki, Christos Katrakazas, Tom Brijs and George Yannis

186 Truck Driver Behavior Extraction Using BI, Geo-location and IoT Technologies
Ioannis Stratakis, Harris Perakis, Panagiotis Sotiriou, Vassilis Gikas, Andreas Pelekoudas, Konstantinos Spiliotakopoulos and Thanassis Mpimis

177 Forecasting Tourism demand using Search Engine data
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Session II (D) – Poster Session

Room: Epsilon

Session Chairman: K. Kepaptsoglou

29 Sustainable Urban Mobility Planning During the Covid-19 Pandemic: Barriers and Opportunities from Public Authorities' Perspective
Christina Georgouli, Luciano Pana Tronca, Manos Chaniotakis, Maria Kamargianni

31 An integrated e-service to support the design, management and use of bike-sharing systems
Afroditi Stamelou, Andreas Nikiforiadis and Georgia Ayfantopoulou

33 Exploiting marketing methods for increasing participation and engagement in sustainable mobility planning
Glykeria Myrovali, Maria Morfoulaki and Maria Chatziathanasiou

41 Discussing the relationship between multimodality and transport equity: The case of Athens, Greece.
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66 Correlation of RAS-K1 and RAL-2012 guides for the design of roundabouts
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69 Horizontal cooperation in combined transport planning: a solution for road-rail freight transport optimization in Greece
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73 Innovative city logistics measures: sustainability impacts, feasibility and stakeholders' value
Beatriz Royo, José Manuel Vasallo, Carolina Ciprés and Sara Sánchez

194 Towards the development of interconnection platforms for urban freight services: A process blueprint.
Rodrigo Tapia, Ioanna Kourouniotti and Lori Tavasszy

215 Case studies of new urban planning policy: Effects of redesigning and redistributing public space in Europe
Michael Hardinghaus, Christian Wolf and Rita Cyganski

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Session III (A) – Resilient transport systems and infrastructure

Room: Muses I

Session Chairman: D. Dimitriou

Rapporteur: A. Pnevmatikou

38 Do we need to agree on what resilience is? A proposed practical and participatory approach.
Ioannis Benekos, Evangelos Bekiaris and Maria Panou

168 Impacts of Cooperative Intelligent Transportation Systems to the Resilience of Urban Road Networks
Charis Chalkiadakis, Eleni Vlahogianni, John Golias and Evangelos Mitsakis

20 Autonomous vehicles and pavement infrastructure
Konstantina Georgouli, Christina Plati and Andreas Loizos

7 Reliable electric public transportation network design considering charging waiting times
Christina Iliopoulou, Athanasios Kopsidas, Orfeas Karountzos and Konstantinos Kerpaptsoglou

110 Comparative Analysis of Network Criticality and Network Centrality Indicators
Chrysostomos Mylonas, Konstantinos Kerpaptsoglou and Evangelos Mitsakis

15 Port operator's strategy assessment and performance due diligence: a benchmarking for Greek ports
Dimitrios Dimitriou, Maria Sartzetaki and George Sklias

Session III (B) – Sustainable urban mobility, implementation and new synergies

Room: Muses II

Session Chairman: C. Ioakimidis

Rapporteur: C. Katrakazas

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30 Traffic Impacts Evaluation for the Pilot Implementation of Athens Great Walk
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167 Commercial speed of Athens tramway network: An evaluation based on international practice.
Georgios Papaioannou, Martha Chatziparaskeva and Christos Pyrgidis

52 Investigating route choice characteristics of cyclists
Vassiliki Stavropoulou and Panagiotis Papantoniou

145 What is the Impact of Driving Behavior on Fuel Efficiency? Theoretical Aspects and Empirical Evidence
Panagiotis Fafoutellis, Eleni Mantouka, Eleni Vlahogianni, Amarildo Haxhi, Harris Perakis, Vassilis Gikas, Anastasia Pnevmatikou, George Kostoulas and Eleni Konstantina Frantzola

157 Planning school trips in the context of Sustainable Urban Mobility Plans
Eleni Verani, Anastasia Nikolaidou, Alexandros Sdoukopoulos, Panagiotis Papaioannou and Ioannis Politis

Session III (C) – Big Data Analytics and Artificial Intelligence

Room: Bridges

Session Chairman: D. Tzovaras

Rapporteur: A. Ziakopoulos

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Maria Eirini Asimomiti, Foteini Orfanou, Eleni I. Vlahogianni and George Yannis

90 Driving fatigue detection from non-hair-bearing EEG sensors
Georgios Dimitrakopoulos, Yu Sun, Gang Li, Xucheng Liu, Mary Panou and Anastasios Bezerianos

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Haris Ballis, Christos Ballis and Loukas Dimitriou

43 Training Artificial Neural Networks for predicting the school mode choice
Kornilia-Maria Kotoula, George Botzoris, Stylianos Kollidakis and Georgia Ayfantopoulou

227 Investigation of speeding and aggressive behaviour of professional drivers through an innovative smartphone application
Armira Kontaxi, Eleni Konstantina Frantzola, Apostolos Ziakopoulos, George Kostoulas and George Yannis

60 Analysis of mobility data via clustering methods for congestion events recognition
Georgia Ayfantopoulou, Zisis Maleas, Josep-Maria Salanova, Evangelos Mintsis and Evangelos Mitsakis

Session III (D) – Poster Session

Room: Epsilon

Session Chairman: A. Anagnostopoulou

120 The impact of Covid-19 on maritime: An empirical analysis in Greece
Aggelos Aggelakakis, Konstantia Karagkouni and Afroditi Anagnostopoulou

163 Design and implementation of a smart on-board device to address on-demand route planning in city logistics
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Konstantinos Karagiannis, Konstantina Derpani, Stratos Papadimitriou, Georgios Papaioannou, Stefania Kollia, Eleftherios Sdoukopoulos and Evangelos Genitsaris

160 Analysis of telematics data for heavy-duty trucks in the city of Athens
Tatiana Moschovou, Athanasios Ballis, Alexandros Efthimiou and Charalampos Babalis

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Anastasios Ziakas and Maria Boile

16 Dynamic risk assessment for contingency planning: the impacts of COVID -19 in air transports
Maria Sartzetaki and Dimitrios Dimitriou

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Konstantina Derpani, Dimitrios Konstantinidis, Dimitrios V. Lyridis, Anna Maria Lekka

Official Dinner

Thursday 02/09/2021, time 20:00pm

Baia Seaside, Elli Beach, Rhodes



Day 3: Friday 03/09/2021

08:30-10:15 EEST

Session IV (A) – Transport planning and policy

Room: Muses I

Session Chairman: P. Papantoniou

Rapporteur: N. Kotoula

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Room: Muses

Session Chairman: G. Ayfantopoulou

Rapporteur: P. Papantoniou

- 1. Matthew Karlaftis Award - Best PhD student paper**
- 2. Dimitrios Tsampoulas Award - Best Graduate or Master Degree student paper**
- 3. Young Researcher Best Publication on Road Safety Award**

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| 17:30 -18:00 | Closing Ceremony | | | |

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