



8th International Congress on Transportation Research

ICTR 2017

The Future of Transportation: A Vision for 2030
September 27-29, 2017 - Thessaloniki, Greece



Final Congress Programme

Under the Auspices of H.E. the President of the Hellenic Republic Mr. Prokopios Pavlopoulos

Organized by:



HELLENIC
INSTITUTE
OF TRANSPORT



HELLENIC INSTITUTE
OF TRANSPORTATION
ENGINEERS

With the active support of:

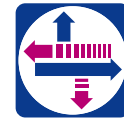


HELLENIC REPUBLIC
MINISTRY OF INFRASTRUCTURE
AND TRANSPORT



CITY OF
THESSALONIKI

Golden sponsors



HELLENIC
INSTITUTE
OF TRANSPORT

Sponsors



Media sponsors



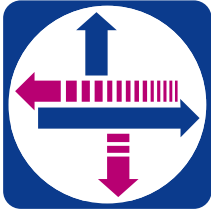
Under the umbrella of the European Research Networks



About the Organizers	4
Welcome Letters	5
About the Event	9
Sessions Overview	11
Programme Overview	13
Posters.....	22
Social Events	24
Congress Committees	26
About Thessaloniki.....	27
Congress Sponsors	28



About the Organizers



www.hit.certh.gr

The Hellenic Institute of Transport (HIT) of the Center for Research and Technology Hellas (CERTH) is a highly accredited research institution that is considered to be a source of innovation and entrepreneurship in field of transport in Europe. Since its establishment in 2000, HIT has evolved towards becoming the leading research institution in Greece. Identified as a center of excellence, it offers 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 throughout the world.



www.ses.gr

The Hellenic Institute of Transportation Engineers (HITE) was founded in 1976 and is renowned as an expert counterpart for supporting decision making processes in transport sector.

The institute aims at promotion of scientific and technological knowledge in the field of transportation through seminars, conferences and roundtables. It widely supports research in the domain of transportation at national level by collaborating with public and private organizations as well as establishes and disseminates technical standards for study, realization and management of projects related to passenger and cargo transportation.

Dear all,

It is an honour to welcome you in the 8th International Congress on Transportation Research (ICTR)!

The conference is organized by the Hellenic Institute of Transportation Engineers and the Hellenic Institute of Transport, under the Auspices of H.E. the President of the Hellenic Republic Mr. Prokopios Pavlopoulos, with the active support of the Ministry of Infrastructure and Transportation and the Municipality of Thessaloniki, under the umbrella of major European Research Networks: ECTRI, ERTICO, EURNEX, FEHRL, HUMANIST and WEGEMT.

Having generous sponsorships from many industrial and research organizations (HELASTRON, SWARCO, HELLENIC INSTITUTE OF TRANSPORT, HELLENIC PETROLEUM, MLS) and a great number of media sponsors (ERT3, AMNA-NEWS, TV100, VERGINA), we aim to provide a great organization for all of you!

ICTR is committed to present all recent achievements on Transportation Research including emerging topics and forthcoming challenges in the era of “changing the way we move”! ICTR provides a very unique opportunity for all of us to meet **“The Future of Transportation: A Vision for 2030”**.

I am very pleased to see this conference steadily developing over the years, starting back in 2002 with almost 50 papers and reaching more than 150 papers this year! Your strong support and active participation have made the 8th ICTR a record-breaking event. We have exceeded the total number of papers ever presented in previous ICTR conferences and the total number of people ever registered. Moreover, this year we have the largest involvement of foreign speakers and well known international scientists as authors!

As we continue to grow, we always try to remain adaptable, open to new ideas and responsive to this event’s organization! The quality of the technical program is world-class, and the range of topics is broad enough to meet all transport related emerging “hot” topics.



The world of Transportation Research is an exciting world, full of challenges and chances to study and develop cutting edge technologies and systems. This Conference opens the gates to these opportunities, bringing together inspired people, distinguished professors and professionals, exceptional students and industry colleagues, to present their work, achievements and vision.

This year, we have two esteemed and distinguished experts in transportation research as honoured guests, Dr. D. Theologitis from DG Move of the European Commission and Dr. B. Peters from VTI, to share with us, based on their lifelong achievements, today’s vision of tomorrow!

We aim to keep striving on developing scientific excellence!

Prepare yourself to be excited and inspired! Welcome to the 8th ICTR!

Evangelos Bekiaris

CERTH/HIT Director
Congress Organising Committee Chairman

Welcome Letters



Transport sector in the digital era relies more and more on high end transport research. The Europeans are expecting more and more integrated and cost affordable services in all transport modes and the European transport industry strives to evolve to more **novel and competitive technological products and services**, whereas. But

which are the contemporary key challenges for transport research in Greece, in Europe and worldwide?

Undeniably, autonomous vehicles traffic is a major challenge which will transform road traffic forever and major investments are dedicated on related research worldwide. Ensuring the combination of **safe, efficient and green autonomous vehicles' traffic** is a key challenge without a single answer. The interface of autonomous vehicles with the non-motorized and vulnerable road users (pedestrians, cyclists, motorcyclists), the tricky long transition phase with mixed traffic of autonomous and non-autonomous vehicles and the battery efficiency challenges are some of the key research priorities worldwide.

In parallel to autonomous vehicles research, special focus is lately given to research on **flying vehicles** (Vertically Taking off and Landing Vehicles -VTOLs) adding the vertical dimension at the current road traffic with tremendous repercussions on the efficiency, the safety, and the environmental benefits and implications. European and global research aim to bringing closer road and air traffic with technically sound and gradually affordable for all solutions.

Special emphasis is also put on research for novel and innovative materials to be used in all transport modes, tailored also for extreme conditions and environments. Lighter and more resistant vehicles, trains, vessels and aircrafts is a key challenge with major repercussions on the new energy, environmental and safety footprint of the of the future transport means. Nanostructured coatings and thin films, functionally graded materials light high-performance composites and green cars are key priority research

areas expected to transform the overall performance of the transport systems of the future.

However, the greatest contemporary challenge might be **the integration of transport systems into high performing, seamless and user oriented transport services**. During the last decade, European research has contributed a lot on the transport services integration, however, the new digital era brings great opportunities to integrate services between all transport modes but also with all other society and economy services (health, energy, the environment, education, etc), from which the transport user can greatly benefit. Services integration for urban and interurban mobility, for intermodal transfers, for multi-modal operations, for integrated logistics can benefit greatly from the new data wealth available and upgrade significantly the performance of transport systems in Europe and worldwide.

The benefits from transport research are however optimized only through close and **efficient cooperation between Research Organisations, the Industry and the Society**. The Industry and the Society should exploit the research expertise and results and the Research Organisations should listen and adjust to the Industry and Society needs. The US Industry and Society give a high value on research with major investments bringing back major benefits both to the economy competitiveness and the quality of life. Europeans strive to cope with not negligible - but not always sufficient - investments, from both the public and private sectors, whereas in Greece much more effort is needed for investments and closer cooperation between researchers, the industry and the public sector.

The 8th International Conference on Transport Research with theme: **The Future of Transport - a Vision for 2030** taking place in Thessaloniki in September 2017 is a great opportunity to bring together Researchers, Authorities, Industry and all Transport Stakeholders to witness the great potential of Greek Researchers and discuss the future of transport research and its contribution to Greek, European and Global society.

George Yanniss

Professor, National Technical University of Athens
Congress Scientific Committee Chairman

Dear Colleagues,

Transportation of both people and goods will change radically in the years to come. Emerging technologies, innovative services and alternative fuels will be major drivers towards shaping the transportation paradigm of the times yet to come. Issues such as congestion, demand management, environmental protection, transportation costs and energy usage are expected to be treated in a whole new context, largely based on information and communication technologies and the concepts of sustainable mobility and transportation. Transportation professionals and the academic community will be pioneers in forming this rising new area in transportation.

The Hellenic Institute of Transportation Engineers (HITE) is the national body representing transportation engineers in Greece and the co-organizer of the ICTR series for over 15 years. HITE members are elite professionals and worldwide renowned academics, who will inevitably lead transportation developments in Greece in the forthcoming years.

The ICTR series conference has traditionally been the leading showcase of transportation related, research and development activities in the country. The 8th ICTR has gone one step further, by evolving into a host for international participants willing to interact with the local research and professional transportation community and present their work to an audience of top-notch transportation experts. HITE expects that the conference will offer important insights and recommendations, and describe a vision for future transportation systems, services and infrastructures, in Greece and the world.

With these thoughts, as the President of the Hellenic Institute of Transportation Engineers, I would like to welcome you to Thessaloniki and wish you a successful and fruitful participation to the ICTR 2017.

Konstantinos Kepaptsoglou

President, Hellenic Institute of Transportation
Engineers



Welcome Letters



I cordially welcome the 8th International Congress on Transportation Research in Thessaloniki. Its main target is to support and accelerate a sustainable urban model, that will meet and respect the citizens' needs, as well as to follow an environmental friendly approach.

Distinguished scientists' research activity in the field of Transport and Mobility clearly defines the framework for new ideas towards the improvement of methods and practices for the successful exploitation of the transport network at national and international level.

The main objective of the Congress, that constitutes the core of its activities, is the training and the transformation of citizens' mentality pertaining to the public transport network and the upgrading of its services, as well as to other daily issues.

The modernized human-centered urban mobility model remains a fundamental priority for the Municipality of Thessaloniki, as it is expected to radically improve the traffic conditions and to boost local market's operation.

With full faith in the fruitful exchange of ideas and the certainty of the Congress advantageous activities, out of which beneficial outcomes will definitely stem from, I wish good luck to the Organizers, an enjoyable Congress to the participants, and, last but not least, a pleasant stay to the visitors of our city.

Yannis Boutaris

Mayor of Thessaloniki



The ICTR Congress has been a major event in the field of transportation research for the past 15 years. Potential ICTR participants include the research and academic community, as well as the public and private sector involved in the development and implementation of innovative projects in the field of transport.

This year, the "8th International Congress on Transportation Research" (ICTR 2017), is co-organised by the Hellenic Institute of Transportation Engineers (HITE) and the Hellenic Institute of Transport (HIT/CERTH) under the spotlight theme: "The Future of Transportation: A Vision for 2030".

ICTR 2017 will host innovative research and development work in the field of transportation systems, operations and infrastructures, in Greece and abroad.

The Congress objective is to showcase recent top-notch research activities in transportation, merge research findings and policy making tasks, facilitate the exchange of knowledge in the local and international level and draw conclusions and shape recommendations on the future of transportation.

With 14 Scientific Sessions, 2 Plenary Sessions, 5 Keynote Speeches from profound experts in the area of Transportation Research, the Young Researchers' Award Ceremony, as well as an impressive Social Agenda, we hope to offer you a busy yet exciting programme.

Welcome to ICTR 2017!

Follow us:     www.ictr.gr

Sessions Overview

Day 1: Wednesday 27/09/2017 – “Non Road Transport”	
Session	I.A: Maritime Transport
Time:	14:00-15:30
Room:	Main Room (Amphitheatre)
Session	I.B: Air Transport and Logistics
Time:	14:00-15:30
Room:	Parallel Sessions (Aiolos)
Session	II.A: Transport Economics
Time:	16:00-17:30
Room:	Main Room (Amphitheatre)
Session	II.B: Rail Transport
Time:	16:00-17:30
Room:	Parallel Sessions (Aiolos)
19:00 Welcome Reception	
Day 2: Thursday 28/09/2017 – “Clean and Efficient Transport”	
Session	III: Plenary – Opening Ceremony
09:00-10:30	Welcome speeches from Organisers, Authorities and Sponsors
10:30-11:00	Opening keynote speech by George A. Giannopoulos, Prof. Emeritus AUTH, “The state of research and innovation in Greece (2010-2017) and the unfolding Transport innovation revolution”
11:00-11:30	Honorary Award to Dimitrios Theologitis, European Commission, and Keynote speech “...and what, after all, has Europe ever done for transport?”
11:30-12:00	Keynote Speech by Evangelos Bekiaris, CERTH/HIT Director, “Future trends and calls of EU funded research”
Session	IV.A: Clean Transport & the Environment
Time:	12:30-14:30
Room:	Main Room (Amphitheatre)
Session	IV.B: Traffic Management Operations
Time:	12:30-14:30
Room:	Parallel Sessions (Aiolos)
Keynote:	Prof. M. Papageorgiou, Director of Dynamic Systems & Simulation Laboratory Technical University of Crete “Traffic management in the era of vehicle automation and communication systems”
Session	V.A: Urban Mobility & MaaS
Time:	15:30-17:30
Room:	Main Room (Amphitheatre)

Sessions Overview

Session	V.B: Education, Training & Social Media
Time:	15:30-17:30
Room:	Parallel Sessions (Aiolos)
18:00 & 19:00 Guided Visit to the Museum of Byzantine Culture 20:00 Official Congress Dinner	
Day 3: Friday 29/09/2017 – “Safe and Secure Transport”	
Session	VI.A: Automation in Road Transport
Time:	09:00-11:00
Room:	Main Room (Amphitheatre)
Keynote:	Dr. Gereon Meyer, Head of Strategic Projects, VDI/VDE "The interplay of automated driving, electric mobility and sharing economy"
Session	VI.B: Young Researchers Presentations (ALL TOGETHER)
Time:	09:00-11:00
Room:	Parallel Sessions (Aiolos)
Duration	~ 3' each
Session	VII.A: Road Safety
Time:	11:30-14:00
Room:	Main Room (Amphitheatre)
Session	VII.B: Resilience and Security issues
Time:	11:30-14:00
Room:	Parallel Sessions (Aiolos)
Session	VIII.A: Transport Policies
Time:	15:00-16:30
Room:	Main Room (Amphitheatre)
Session	VIII.B: Regional Aspects
Time:	15:00-16:30
Room:	Parallel Sessions (Aiolos)
Session	IX: Plenary – Closing Ceremony
Time:	16:30-17:30
Room:	Main Room (Amphitheatre)
LTA:	Life Time Achievement Award to Dr. Björn Peters, VTI

Programme Overview

Day 1: Wednesday 27/09/2017 – “Non Road Transport”

14:00-15:30

Session I.A: Maritime Transport
Room: Main Room (Amphitheatre)
Session Chairman: A. Ballis
Rapporteur: M. Boile

88 Optimizing the operation of the 100% electric E-Ferry through the use of on board charging information

Hanna Huppunen, Trine Heinemann, Georgia Aifadopoulou and Anna Kortsari

193 Unveiling Configurations of Shipping Clusters: Recording the Structure of the Thessaloniki Port Cluster

George Vaggelas and Paraskevi Kladaki

10 Time Series Models for Evaluating the Impact of Economic Crisis on Maritime Passenger Traffic in Greece

Eirini Aivazidou and Ioannis Politis

95 Occupational Safety in Norwegian Maritime Transport: a Study of Respondents from Cargo and Passenger Vessels

Tor-Olav Nævestad, Kristine Størkersen, Alexandra Laiou and George Yannis

198 Port Training in Europe and the Next Generation of Port Workers

Maria Boile and Sotirios Theofanis

Session I.B: Air Transport and Logistics
Room: Parallel Sessions (Aiolos)
Session Chairman: D. Dimitriou
Rapporteur: M. Morfoulaki

199 Passenger Demand and Patterns of Tourists' Mobility In the Aegean Archipelago with Combined Use of Big Datasets from Mobile Phones and Statistical Data from Ports and Airports

Fani Hatzioannidu and Amalia Polydoropoulou

136 Assessing Air Connectivity Socio-Economic Footprint

Dimitrios Dimitriou and Maria Sartzetaki

74 Techno-economic analysis and demand forecast for seaplanes' tourism services

Minas Pagonakis and Athanasios Ballis

176 Market introduction of cooperative freight transport services

Iraklis Stamos, Josep-Maria Salanova Grau and Zeljko Jeftic

135 Multiparameter Artificial Neural Network Models for the Forecast of Air Transport Demand

Vassilios Profillidis, George Botzoris and Stylianos Taxidis

196 ITS Observatory: an ITS on-line repository
Charis Chalkiadakis, Panagiotis Iordanopoulos, Evangelos Mitsakis and Georgia Aifadopoulou

15:30-16:00: Coffee Break

16:00-17:30

Session II.A: Transport Economics
Room: Main Room (Amphitheatre)
Session Chairman: B. Halkias
Rapporteur: E. Sambrakos

65 Factors Affecting the Cost Performance of Transport Infrastructure Projects

Eleni Moschouli, Murwantara Raden, Thierry Vanellander and Koen Verhoest

61 Analyzing market-based environmental measures with econometric supply-and-demand models

Ioanna Pagoni and Paraskevi Psaraki-Kalouptsidi

124 Price of anarchy and selfish routing: From theory to application

Emmanouil Kampitakis, Eleni Vlahogianni, Ioannis Giotis and Ioannis Mourtos

110 Development of a Model of Societal Cost of Travel for Urban Roads from Limited Data

Konstantina Marousi and Yorgos Stephanedes

78 Autonomous Vehicles & Connected Vehicles: challenges for motorway operation companies

Bill Halkias
172 A Critical Discussion on the EU Policy Reforms of Local Public Transport Services
Anastasia Roukouni and Annalisa Negrelli

Session II.B: Rail Transport
Room: Parallel Sessions (Aiolos)
Session Chairman: Ch. Pyrgidis
Rapporteur: E. Mitsakis

66 Comparison of energy consumption and pollutant emissions models for road and rail freight transport

Tatiana Moschovou, Athanasios Ballis and Romanos Siatitsas

188 An investigation of dwell time patterns in urban public transport systems: The case of the Nantes tramway

Zoi Christoforou, Ektoras Chandakas and Ioannis Kaparias

161 The operation of railway systems under special weather conditions

Alexandros Dolianitis, Christos Pyrgidis and Panagiotis Spartalis

159 Design, construction and cost evaluation of a tramway superstructure

Andreas Zantopoulos, Christos Pyrgidis and Dimitrios Sapounas

Day 1: Wednesday 27/09/2017 – “Non Road Transport”

Programme Overview

Day 2: Thursday 28/09/2017 – “Clean and Efficient Transport”

09:00-12:00

Session: III: Plenary – Opening Ceremony
Room: Main Room (Amphitheatre)
Session Chairman: G. Yannis
Rapporteur: E. Bekiaris

09:00-09:30

Congress Opening Ceremony

Evangelos Bekiaris, Chairman of the Organising Committee, Director, Hellenic Institute of Transport - CERTH/HIT
 Konstantinos Kepaptsoglou, President, Hellenic Institute of Transportation Engineers
 George Yannis, Chairman of the Scientific Committee, Professor, National Technical University of Athens
 Thanos Vourdas, General Secretary, Greek Ministry of Infrastructure and Transportation
 Apostolos Tzitzikostas, Governor, Region of Central Macedonia
 Yannis Boutaris, Mayor of Thessaloniki

09:30-10:00

Welcome Speeches by Congress Sponsors

Bill Halkias, President of the BoD, HELLASTRON
 Laura Cocone, R&D Director, SWARCO MIZAR S.r.l
 Spyros Kiartzis, Director of Alternative Energy Sources and New Technologies, Hellenic Petroleum S.A.
 Adamantios Stavridis, European Proposals Engineer, MLS

10:00-10:30

Welcome Speeches by key Local and National Actors

Yannis Mylopoulos, Chairman of the BoD, Attiko Metro S.A.
 Sotirios Theofanis, Coordinator of Partnership, DIEP GmbH - Terminal Links SAS - BELTERRA Investments Ltd
 Glykeria Kalfakakou, Managing Director, Egnatia Odos S.A.
 Anastasios Tastanis, Chairman of the BoD, Athens Urban Transport Organisation S.A.
 Konstantinos Ampatzas, Chairman of the BoD, Transport Authority of Thessaloniki S.A.

10:30-11:00

Opening keynote speech by George A. Giannopoulos, Professor Emeritus Aristotle University of Thessaloniki, Corr. Member, Academy of Athens, on “The state of research and innovation in Greece (2010-2017) and the unfolding Transport innovation revolution”

11:00-11:30

Honorary Award to Dimitrios Theologitis, European Commission, and Keynote speech “...and what, after all, has Europe ever done for transport?”

11:30-12:00

Evangelos Bekiaris, CERTH/HIT Director, Keynote Speech “Future trends and calls of EU funded research”

12:00-12:30: Coffee Break

12:30-14:30

Session IV.A: Clean Transport @ the Environment
Room: Main Room (Amphitheatre)
Session Chairman: Z. Samaras
Rapporteur: J. Paravantis

114 Design and Analysis of Low Cost Aerodynamic Aids for Heavy Duty Trucks Using Composite Materials for Fuel Saving Purposes and CO2 Reduction
Antonios Biratsis, Stavros Tsantzalis, Dimitrios Mazarakos, and Vassilis Kostopoulos

152 Development and Validation of a Heavy Truck Fuel Consumption Model
Christos Ballis, Konstantinos Kepaptsoglou and Athanasios Ballis

86 Study of a mobile app interface supporting behavior change in electric vehicles use
Serena Fruttaldo, Roberto Montanari, Tracy Ross and Andrew Morris

67 Drive trains, fuels and technologies for Heavy Duty Vehicles in 2030 and beyond
Andreas Lischke

101 Optimizing Manufacturing and Remanufacturing Total Profit in an Electric Vehicle Battery Closed-loop Supply Chain
Xiaoyu Gu, Petros Ieromonachou and Li Zhou

106 Potential Demand of Alternative Fuel Technologies in Private Cars and Commercial fleets: The case of Natural Gas
Anna Karamigkou and Seraphim Kapros

195 Exploring electric vehicles potential adoption in the taxi fleet of Thessaloniki, Greece
Katerina Chrysostomou, Antony Stathopoulos, Maria Morfoulaki and Georgia Aifadopoulou

90 Environmental Policy on Roads in Greece, the Case of the Egnatia Highway
Lazaros Georgiadis and Niki Voumvoulaki

138 Research methodology on the development of a strategy on e-mobility in Greek cities. The case of Athens
Efthimios Bakogiannis, Maria Siti, Georgia Christodouloupoulou and Charalampos Kyriakidis

Session IV.B: Traffic Management Operations
Room: Parallel Sessions (Aiolos)
Session Chairman: G. Mintsis
Rapporteur: I. Spyropoulou

Keynote: Traffic management in the era of vehicle automation and communication systems
Prof. M. Papageorgiou, Director of Dynamic Systems & Simulation Laboratory Technical University of Crete

7 Integrated Motorway Traffic Flow Control
Ioannis Papamichail, Georgia-Roumpini Iordanidou, Claudio Roncoli and Markos Papageorgiou

70 Simulation investigations of the coordinated traffic-responsive signal control strategy TUC with actuation at the local junction level
Diamantis Manolis, Christina Diakaki, Ioannis Papamichail and Markos Papageorgiou

64 Study of the relationship between main parameters of traffic flow with the use of a traffic microscopic simulation model

Achilleas Petrou, Evangelos Mintsis, George Mintsis, Socrates Basbas and Christos Taxiltaris

87 Rapid Algorithm for Finding the Best Combination of Signaling Phases using Optimization Methods

Eleni Papatzikou and Antony Stathopoulos

181 Flexible car-following models for mixed traffic conditions
Vasileia Papathanasopoulou and Constantinos Antoniou

108 A Model for Optimizing On-Street Parking in an Urban Network
Chrysanthi Gkini, Chistina Iliopoulou and Konstantinos Kepaptsoglou

180 Data collection and traffic modelling of indoor parking facilities under constraints
Constantinos Antoniou, Vassilis Gikas, Vasileia Papathanasopoulou, Thanassis Mpimis, Harris Perakis and Constantine Kyriazis

81 Integrated Risk Management for Traffic Control Improvement
Eleni Papatzikou, Antony Stathopoulos and Panos Papadakos

14:30-15:30: Lunch Break

Programme Overview

Day 2: Thursday 28/09/2017 – “Clean and Efficient Transport”

15:30-17:30

Session V.A: Urban Mobility & MaaS
Room: Main Room (Amphitheatre)
Session Chairman: S. Basbas
Rapporteur: M. Gkemou

- 132** SOCIALCAR Investment Community and Funding Sources
Maria Tsami, Athena Dimou, Maria Panou and Evangelos Bekiaris
- 55** The introduction of Mobility as a Service (MaaS) concept in urban transport planning: The case of Thessaloniki
Konstadinos Chondrosyros, Magda Pitsiava-Latinopoulou, Socrates Basbas and Ioannis Politis
- 119** Evaluating users' perception on Demand Responsive Transport (DRT): The case of Thessaloniki, Greece
Anestis Papanikolaou, Socrates Basbas, Michail Belimpasakis, Ioannis Provatenos, Charitos Chimeras – Kouderis
- 25** A New Functional Classification System to Aid Multi-modal Accommodation
Nikiforos Stamatiadis and Adam Kirk
- 50** Mining of Thessalonikis' Bike-Sharing Big Data sets
Rafael Katkadikas and Ioannis Politis
- 174** Operational Urban Planning Tool for Enhancing Accessibility to Public Transport Stations
Klio Monokrousou, Maria Giannopoulou and Basil Stephanis
- 44** Mobility as a Service (MaaS) in a multimodal European cross-border corridor
Maria Gkemou, Roberto Palacin, Evangelos Bekiaris, Dionisis Kehagias, Dimitrios Tzouvaras, Vassilis Mizaras and Yannis Larios
- 17** Development of flexible transport service in the mountain settlements of Thassos island, Greece
Christos Limnios, Apostolos Papagiannakis, Evangelos Genitsaris and Aristotelis Naniopoulos

Session V.B: Education, Training & Social Media,
Room: Parallel Sessions (Aiolos)
Session Chairman: A. Polydoropoulou
Rapporteur: M. Panou

- 103** Can Incentives Motivate Users Towards the Use of Environmental Friendly Modes?
Amalia Polydoropoulou, Ioanna Pagoni, Athina Tsirimpa and Ioannis Tsouros
- 128** Social media in the service of sustainable urban mobility indicators
Anastasia Nikolaidou, Alexandros Sdoukopoulos, Panagiotis Papaioannou and Magda Pitsiava-Latinopoulou
- 151** Crowdsourcing innovative ideas by Public Transport users and non-users of the city of Thessaloniki
Evangelos Genitsaris, Afroditi Stamelou, Dimitrios Nalmpantis, Ilias Trochidis and Aristotelis Naniopoulos
- 4** The efficiency of traffic education programs concerning traffic accident prevention for under-age pedestrians
Anastasios Fylaktakis, Socrates Basbas, Georgios Mintsis, Christos Taxiltaris and Antonia Tsoukala
- 19** Development of educational material for the implementation of human factors principles in safe road design
Sophia Vardaki and Evangelos Bekiaris
- 12** Evaluations of innovative modules for driving simulators
Maria Panou, Katerina Toulou and Evangelos Bekiaris
- 146** Behavioral Change Monitoring; Experiment with Electric Bicycles - The case of the island of Chios
Nikoleta Krousouloudi and Amalia Polydoropoulou

09:00-11:00

Session VI.A: Automation in Road Transport

Room: Main Room (Amphitheatre)

Session Chairman: M. Pitsiava

Rapporteur: E. Vlahogianni

Keynote: The interplay of automated driving, electric mobility and sharing economy
Dr. Gereon Meyer, Head of Strategic Projects, VDI/VDE

56 Driver's Willingness to Use Parking Assistance Tools and their Expectations: A Case Study for the Cities of Munich and Athens

Foteini Orfanou, Martin Margreiter, Philipp Mayer, Matthew Alpas and Eleni Vlahogianni

11 Intelligent personalized ADAS warnings

Maria Panou

8 Driver state monitoring Use Cases and scenarios in automated driving

Evangelos Bekiaris, Stella Nikolaou, Katerina Toulidou, Anna Anund and Tania Dukic Willstrand

182 Sleep and Takeover in Automated Driving

Maria Hirsch, Frederik Diederichs, Harald Widlroither, Ralf Graf and Sven Bischoff

111 Emotion recognition for future user experience in vehicle interaction and automated driving

Sven Bischoff, Manfred Dangelmaier, Frederik Diederichs and Harald Widlroither

164 IoT-based interaction of automated vehicles with Vulnerable Road Users in controlled environments

Stella Nikolaou and Ioannis Gragopoulos

58 Modeling Powered Two Wheelers' overtaking maneuvers using Game Theory

Emmanouil Barmounakis, Eleni Vlahogianni and John Golias

09:00-11:00

Day 3: Friday 29/09/2017 – “Safe and Secure Transport”

Session VI.B: Young Researchers Presentations

Room: Parallel Sessions (Aiolos)

Session Chairman: P. Papaioannou

Rapporteur: S. Kapros

148 Investigation of Implementation of International Port Performance Indicator Standards in Thessaloniki's Port Authority

Effrosyni Chalkia and Evangelos Sambracos

96 The culture of maritime clusters as a paradigm for competitiveness and sustainability within global supply chains

Ioannis Koliouisis, Stratos Papadimitriou, Peter Stavroulakis and Vangelis Tsioumas

53 Value Of Statistical Life (VOSL) estimation through targeted road safety campaigns

Elpida Pantelidou, Ioannis Politis and Panagiotis Papaioannou

166 Inference of activities from Social Media data for transportation studies

Emmanouil Chaniotakis and Constantinos Antoniou

184 Initial design and dimensioning of an electric sports car

Dimitris Angeletos and Ioannis Symeonidis

98 Periurban Green Areas. Accessibility Issues. The case of Hymettus in Athens.

Stefanos Tsigdinos and Thanos Vlastos

47 Analysis of Priority Management Policies at roundabouts through VISSIM microsimulation software

Apostolos Anagnostopoulos and Ioannis Politis

85 Analysis of Alternative Scenarios for Managing Traffic Incidents Through Micro Simulation

Eleni Charoniti, Foteini Orfanou, Dimitris Sermpis and George Yannis

79 A Reputation Assessment System for Carpooling Applications

Athanasios Salamanis, Dimitrios Tsoukalas, Dionysios Kehagias and Dimitrios Tzovaras

165 Methodological issues and concerns on using smartphones to collect driving and mobility data

Eleni Mantouka, Emmanouil Bampounakis and Eleni Vlahogianni

107 Combining ITS and Optimization in Public Transportation Planning: State of the Art and Future Research Paths

Christina Iliopoulou and Konstantinos Kepaptsoglou

48 Assessment of pedestrian LOS at Thessaloniki Metro Station through VISWALK microsimulation software

Ioannis Politis and Omiros Athanasiadis

32 Design and implementation of a prototype questionnaire for the investigation of the degree of usage of transport modes in the area of Thessaloniki

Aikaterini Nikolaidou, Panagiotis Papaioannou and Socrates Basbas

46 Time Series Models for modelling the passenger demand in the Athens Metro System

Xaris Sergidis and Ioannis Politis

129 Data driven – a significant tool in pedestrian simulation

George Kouskoulis, Constantinos Antoniou and Ioanna Spyropoulou

52 Impact of Countdown Signal Timers at pedestrians trajectories

Konstantinos Mochlas and Ioannis Politis

35 Bicycle master plan in the municipality of Thessaloniki: Investigation for integrating cycling in urban areas

Tatiana-Vasiliki Angelidou and Apostolos Papagiannakis

187 Investigation of Users' Preferences Regarding the Operation of Night Bus Lines in Thessaloniki Using Conjoint Analysis

Dimitra Giannaka, Stavros Malliaris, Dimitrios Nalmpantis, Evangelos Genitsaris and Aristotelis Naniopoulos

175 Willingness to Use Novel Taxi Services and Ridesharing in Greece

Alexandros Lampaounas, Christina Milioti and Eleni Vlahogianni

167 Analysis of Mobility Preferences in NTUA Campus

Eleni Vlahogianni, George Yannis, Panagiotis Papantoniou and Evanthia Kotsi

163 Sustainable Mobility and Public Transportation During The Economic Crisis

Despoina Nimorakiotaki and Evangelos Sambracos

147 The Phenomenon of Fare Evasion in Urban Public Transport of Athens and Thessaloniki

Maria Zoi, Eleni Kountouri, Dimitrios Nalmpantis, Evangelos Genitsaris and Aristotelis Naniopoulos

63 Multi-criteria analysis for the prioritization of sustainable mobility measures and policies in the center of Thessaloniki

Konstantina Anastasiadou and Spyros Vougias

59 Investigation of the influence of Variable Message Signs in the choice of drivers routes

Yannis Tyrinopoulos and Evaggelos Kontides

49 Social media data mining at mobility and transport domain

Michael Pouliasis and Ioannis Politis

143 Investigation of Acceptance of the Driverless Automated Buses in the City of Trikala and Use of Conjoint Analysis for their Optimization

Georgia Papadima, Dimitrios Nalmpantis, Evangelos Genitsaris and Aristotelis Naniopoulos

51 Implementation of the Narcissism Personality Inventory test in relation with personal characteristics of road behavior, mobility and motivation to change

Aggelos Vazakidis, Ioannis Politis and Socrates Basbas

68 Development of a conceptual framework for the assessment of the impact of human factor on drivers' behaviour

Anna Chatzimpladi and Fotini Kehagia

34 Investigating the operation of Demerit Point Systems

Maria Christina Zapounidou, George Mintsis, Socrates Basbas and Magda Pitsiava-Latinopoulou

141 Investigation of the impact of mobile phone use on driving performance: A simulator study

Maria Linardou and Ioanna Spyropoulou

142 Investigation of the impact of mobile phone use on drivers' behaviour during the night. A driving simulator study.

Helen Andrikopoulou and Ioanna Spyropoulou

117 Analysis of traffic accidents inside school zones in the Municipality of Thessaloniki, Greece and their comparison with the total accidents of the Municipality

Vasiliki Amprasi, Alexandros Sdoukopoulos and Magda Pitsiava-Latinopoulou

105 An overview of road accident fatalities in the European Union

Alexandra Laiou, George Yannis, Katerina Folla, Robert Bauer, Klaus Machata and Christian Brands-taetter

11:00-11:30: Coffee Break

Programme Overview

Day 3: Friday 29/09/2017 – “Safe and Secure Transport”

11:30-14:00

Session VII.A: Road Safety
Room: Main Room (Amphitheatre)
Session Chairman: N. Eliou
Rapporteur: Y. Tyrinopoulos

- 20** Road Design through a Safe System Perspective
George Kanellaidis and Sophia Vardaki
- 116** Overview of the European Road Safety Decision Support System
Pete Thomas, Ashleigh Filtness, George Yannis, Eleonora Papadimitriou, Athanasios Theofilatos, Klaus Machata, Heike Martensen and Kevin Diependaele
- 125** Predicting Road Accidents - a Transferable methodology across Europe
Anastasios Dragomanovits, George Yannis, Alexandra Laiou, Francesca La Torre, Lorenzo Domenichini, Thomas Richter, Stephan Ruhl, Daniel Graham and Niovi Karathodorou
- 69** A Methodology to Successfully Apply Road Safety Inspection on Regional Roads
Martin Winkelbauer, Bernd Strnad, Peter Trimmel and Sandra Schmied
- 60** Improving safety and mobility for the elderly pedestrians
Hector Monterde I Bort and Socrates Basbas
- 43** Low-cost innovative implementation towards self-explaining and forgiving C-ITS
Maria Gkemou, Francois Fischer, Evangelos Bekiaris, Dionisis Kehagias and Dimitrios Tzovaras
- 94** Real Time Monitoring of Traveller’s Psychological Stress
Gaël Vila, Christelle Godin, Oumayma Sakri, Simon Ollander, Etienne Labyt, Audrey Vidal, Sylvie Charbonnier and Aurélie Campagne
- 26** Development of an exemplar Mobile Lab For The Training Of Car & Truck Drivers And Mining Or Work Site Machinery Operators, Evaluating Their Safe And Eco Driving Profile Using Simulators’ Cluster, Towards An Integrated Accident Prevention Approach In Road Transport, Construction and Mining
Chrysoula Merka, Leonidas Tsongas, Manolis Vranakis, Michael Gogas, Panagiotis Charbis, Apostolis Tsalmpouris, Nikolaos Eliou and Athanasios Tsioutras
- 24** Safety-Based Left-Turn Decisions for Signalized Intersections
Nikiforos Stamatiadis, Kiriakos Amiridis and Adam Kirk

Session VII.B: Resilience and Security issues
Room: Parallel Sessions (Aiolos)
Session Chairman: C. Antoniou
Rapporteur: P. Kopelias

- 121** Building resilience and broad optimization of transportation networks
Afroditi Anagnostopoulou, Aggelos Aggelakakis, Maria Boile and Arjan Hijdra
- 16** European Resilience Management Guidelines for Critical Infrastructure operationalised for the Urban Transport System
Evangelia Gaitanidou, Emanuele Bellini and Evangelos Bekiaris
- 42** Tracking the key elements of urban road transport in an era of uncertainty
Tatiana Moschovou and Yannis Tyrinopoulos
- 57** A Matrix-based Approach for Assessing the Criticality, Exposure and Vulnerability of Transport Infrastructure
Kalliopi Anastassiadou, Ingo Kaundinya, Evangelos Mitsakis, Harald Kammerer and Iraklis Stamos
- 75** Personalized Evacuation Guidance in Urban Environments
Alexandros Zamichos, Traianos Ioannis Theodorou, Anastasios Drosou and Dimitrios Tzovaras
- 91** Egnatia Motorway: Fish protection measures in a major landslide stabilization project
Niki Voumvoulaki and Demetrios Kaltsas
- 2** Methodological framework for the estimation of risks in the transport of dangerous goods
Josep-Maria Salanova, Emmanouil Chaniotakis, Athanasios Gkoutzikas, Stratis Zacharis, Panagiotis Tzenos and Georgia Aifadopoulou
- 130** In-situ fire test to assess tunnel lining fire resistance
Anastasios Stavros Kallianiotis, Konstantinos Miltiadis Sakkas, Nikolaos Vagiokas, Dimitrios Mandalozis, Andreas Benardos and Pavlos Nomikos

14:00-15:00: Lunch Break

15:00-16:30

Session VIII.A: Transport Policies
Room: Main Room (Amphitheatre)
Session Chairman: K. Kepaptsoglou
Rapporteur: G. Aifadopoulou

31 Identification of skills and competences needs for the professionals of the future transportation sector – The SKILLFUL Project

Matina Louka, Evangelos Bekiaris, Adewole Adesiyun and Thierry Goger

18 A green transport policy tool: A multi-level assessment of policy and measures

Ioannis Tsouros and Amalia Polydoropoulou

77 ZONESEC Research Project: Pilot Application in Attiki Odos

Bill Halkias, Helen Tyrogianni, Natalie Kalfa, Margarita Kostovasili and Christos Kidikoudis

14 The TRA VISIONS Competitions

George Smyrnakis, Ezio Spessa, Micol Biscotto, Roberto Palacin, Alexander Busse and George Kotsikos

118 Advantages, Perspectives and Risks to Use Autonomous Cars

Irina Makarova, Anton Pashkevich, Ksenia Shubenkova and Dago Antov

Session VIII.B: Regional Aspects
Room: Parallel Sessions (Aiolos)
Session Chairman: S. Vougias
Rapporteur: I. Politis

71 A Euro-Mediterranean research agenda supporting sustainable urban mobility in Mediterranean Partner Countries

Eleftherios Sdoukopoulos, Ayelet Galtzur, Pinar Kose, Maria Boile and Ebtihal Sheety

123 The Greek economic crisis as an opportunity for the promotion and the enhancing of sustainable urban transport

Athanasios Galanis, George Botzoris, Vassilios Profillidis, Konstantina Lantitsou and Nikolaos Eliou

73 MONITOR: An Original Method For Estimating Mobility Behaviour And Road Safety Through Online Questionnaires

Julien Leblud, Brecht Pelsser, Heike Martensen, Ine Polling and Wouter Van den Berghe

153 Assessing network-level walkability in relation to highway design standards: The case study of Luxembourg

Maurice Nilles and Ioannis Kaparias

126 Assessing Road Safety Management in Africa

Stergios Mavromatis, George Yannis, Alexandra Laiou, Antonino Tripodi and Luca Persia

72 Activity Participation and Perceptions on Informal Public Transport and Bus Rapid Transit in Dar es Salaam City

Lucy Joseph, An Neven, Karel Martens, Opportuna Kweka, Geert Wets and Davy Janssens

Programme Overview

Day 3: Friday 29/09/2017 – “Safe and Secure Transport”

16:30-17:40

Session: III: IX: Plenary – Closing Session
Room: Main Room (Amphitheatre)
Session Chairman: E. Bekiaris
Rapporteur: G. Yannis

16:30-16:40

“Closing Remarks of the 8th ICTR”, by Evangelos Bekiaris, Chairman of the Organising Committee, Director, Hellenic Institute of Transport - CERTH/HIT

16:40-17:00

Life Time Achievement Award to Björn Peters, Swedish National Road and Transport Research Institute – VTI and Keynote Speech on “Mobility, Safety and Independence”

17:00-17:30 Young Researchers’ Scientific Award Ceremony

“Dimitrios Tsampoulas” Award - Best Graduate or Master Degree student paper
 “Matthew Karlaftis” Award - Best PhD student paper

17:30-17:40

Best Congress Poster Award Ceremony

Posters

1 Traffic flow estimation from Bluetooth devices detection

Josep-Maria Salanova Grau, Iraklis Stamos, Panagiotis Tzenos, Evangelos Mitsakis, Dimitris Margaritis and Georgia Aifadopoulou

3 A spatio-temporal correlation between digital and physical world, case study in Thessaloniki

Ioannis Toumpalidis, Nicolaos Karanikolas, Josep Maria Salanova Grau, Emmanouil Chaniotakis, Panagiotis Tzenos and Georgia Aifadopoulou

6 The role of societal resistance in transportation innovation

Eleni Chalkia, Beate Mueller and Alain L’Hostis

13 School Transportation - Defining and analyzing influencing factors for mode choice

Kornilia Maria Kotoula, George Botzoris, Georgia Aifadopoulou and Maria Morfoulaki

15 User acceptance of C-ITS speed advice service in Thessaloniki

Kornilia Maria Kotoula, Josep Maria Salanova Grau, Evangelos Mitsakis and Evangelos Mintsis

23 Smart Navigation in Urban Areas: Integrating GPS data and GIS for the development of a real-time system

Kalliopi Kyriakou, Konstantinos Lakakis and Paraskevas Savvaidis

- 30** Towards a Single and Innovative European Transport System – Identification of Best Practices from Countries outside Europe
Matina Loukea, Evangelos Bekiaris, Gereon Meyer and Sebastian Stagl
- 38** Traffic Impact Assessment of Pavement Maintenance Roadworks on Highways
Dimitris Sermpis, Aristofanis Papadimitriou, Alexandros Panagakis and Alexander Skabardonis
- 39** Analysis of Red-Light Running (RLR) and Yellow-Light Running (YLR) traffic violations at intersections in the city of Thessaloniki
Socrates Basbas, Andreas Nikiforiadis, Miltiadis Nikolaidis, Konstantinos Asteiopoulos, Alexandros Lazaridis and Alexandros Samaras
- 40** Design process for installing safety barriers according to the Greek Guideline OMOE-SAO with computer software
Angelos Nikiforiadis and Andreas Nikiforiadis
- 54** Development of Egnatia Odos SA Strategic Macrosimulation Model
Ioannis Politis and Evangelos Viskos
- 62** Customer satisfaction of EVs – Survey preparation for the Greek market
Alkiviadis Tromaras, Dimitris Margaritis and Aggelos Aggelakakis
- 80** Progress in Fuzzy Heuristic Local Search Algorithms for the Circular Optimal Path Problem
Konstantinos Mattas, George Botzoris and Basil Papadopoulos
- 84** Special permit management system for the transportation of abnormal loads through the road network operated by Egnatia Odos S.A.
Anestis Marapidis, Evangelos Viskos and Konstantinos Lazaridis
- 89** An Overview of Risk Factors Related to Driver Distraction: Reviews and Meta-Analyses
Apostolos Ziakopoulos, Athanasios Theofilatos, Eleonora Papadimitriou, George Yannis, Eva Aigner Breuss and Susanne Kaiser
- 100** Investigating sustainable mobility practices within physically active students
Foteini Mikiki, Ermioni Katartzzi and Andreas Oikonomou
- 115** Attitudes of Greek drivers towards autonomous vehicles
Charalampos Souris, Athanasios Theofilatos and George Yannis
- 120** A microscopic traffic simulation study at Amfissa city
Aggelos Aggelakakis, Evangelia Papargyri, Ioannis Ligkas and Panagiotis Laios
- 127** Understanding trip makers' attitudes and behaviour through social media data mining
Anastasia Nikolaidou and Panagiotis Papaioannou
- 131** Transport of Daily Products to Historic City Center
Despoina Athanasakopoulou, Theofanis Spyridis and Yorgos Stephanedes
- 133** A methodology for developing Sustainable Urban Mobility Plans (SUMP) in suburban and rural areas. The case of the Municipality of Themi.
Afroditi Stamelou, Chrysostomos Makrakis-Karaxalios, Maria Grigoriadou, Theodoros Natsinas and Despoina Dimitriadou
- 150** Applying the co-creation process for improving Public Transport in the city of Thessaloniki.
Evangelos Genitsaris Afroditi Stamelou, Dimitrios Nalmpantis and Aristotelis Naniopoulos
- 169** Association of Stated and Revealed Driving Behaviour Using an On-Board-Diagnostics System
Natalia Vittoratos, Dimitrios Tselentis and George Yannis
- 170** Correlating Driving Behaviour and Characteristics
Vasiliki Agathangelou, Dimitrios Tselentis and George Yannis
- 177** Future directions for the logistics and road freight transport sector
Iraklis Stamos and Zeljko Jeftic
- 179** Sustainable urban mobility at local level. The case of "40 Ekklisies" settlement in Municipality of Thessaloniki, Greece.
Nicos Gavanas, Eleni Verani, Anastasios Tsakalidis, Anastasia Nikolaidou, Alexandros Sdoukopoulos and Magda Pitsiava-Latinopoulou
- 189** Contributory factors of cycling in urban areas
Ioanna Spyropoulou, Maria Konstantinidou and Vasileios Valavanis
- 190** Project Control Framework in England
Harris Karandinos, Pantelis Kopelias, Konstantinos Mpogas and Nikolaos Eliou

Social Events

Welcome to the 8th ICTR Congress Social Agenda. Our organizers have ensured arranging delightful and captivating activities for all of you, aimed at creating a wholesome experience in both participating in the Congress and enjoying the beautiful city of Thessaloniki.

The full Social Agenda experience is included in your registration fee!

Welcome Reception – 27 September

In the 27th of September, at 19:00, a Welcome Reception will be held at the City Hall of Thessaloniki. Participants will have the opportunity to see the notable architecture perspective of this building as it has been designed as a building complex with an internal walkway. Moreover, they will get acquainted to each other and exchange views and ideas on the future of transportation, while enjoying a relaxing evening in the heart of the city centre with a glass of wine!

Guided Visit to the Museum of Byzantine Culture – 28 September

During the second day of the Congress (28th of September, 18:00-20:00), a visit to the Museum of Byzantine Culture has been scheduled in two guided tours (18:00-19:00 and 19:00-20:00), to enrich ICTR participants' scientific experience with the cultural colours of the host city. The museum itself is considered to be one of the best pieces of public architecture created in the last decades in Greece. It possesses more than 46 000 artefacts and offers 11 galleries of the permanent exhibition together with temporary exhibitions that bring together history, cultural heritage and art. The carefully selected 3190 displayed pieces of art allow the visitors to travel back to the world of Byzantium through thematic sections of the daily private and public life. Shuttles from CERTH Congress Centre to the Museum will be arranged by the Organising Committee at 17:00 (first shuttle departs at 17:00; sec-





ond shuttle departs after the end of the Congress second day activities and no later than 18:00).

Please book your shuttle place at the Registration Desk!

Gala Dinner at Restaurant “B” – 28 September

Immediately after the museum visit (at 20:00), in the well-known and sophisticated high standard bar-restaurant “B”, adjacent to the Museum of Byzantine Culture, conference participants will have the opportunity to taste the cuisine “pieces of art”! The restaurant offers Mediterranean flavours combined with elements of fine French and Italian cuisine, providing menus unique to each season of the year.



Committees

Scientific Committee

Chairman

Yannis George

Members

Aifadopoulou Georgia

Anagnostopoulou Afroditi

Antoniou Konstantinos

Bekiaris Evangelos

Boile Maria

Botzoris George

Christofa Eleni

Christoforou Zoi

Dimitriou Dimitrios

Dimitriou Loukas

Gaitanidou Evangelia

Geroliminis Nikolaos

Gkemou Maria

Gkrintza Konstantina

Kaparias Ioannis

Kapros Serafeim

Kepaptsoglou Konstantinos

Kondili Aleksandra

Kopelias Pantelis

Mitsakis Evangelos

Morfoulaki Maria

Mpallis Athanasios

Mpasmpas Sokratis

Panou Maria

Paravantis Ioannis

Plati Xristina

Politis Ioannis

Polydoropoulou Amalia

Salanova Jose

Samprakos Evangelos

Spiropoulou Ioanna

Tyrinopoulos Yannis

Vlaxogianni Eleni

Organizing committee

Chairman

Bekiaris Evangelos

Members

Dimokas Nikolaos

Kalogirou Konstantinos

Kouretas Konstantinos

Margaritis Dimitrios

Milioti Christina

Mintsis Evangelos

Moschovou Tatiana

Nikolaou Stella

Papantoniou Panagiotis

Tzenos Panagiotis

Tsioutras Athanasios

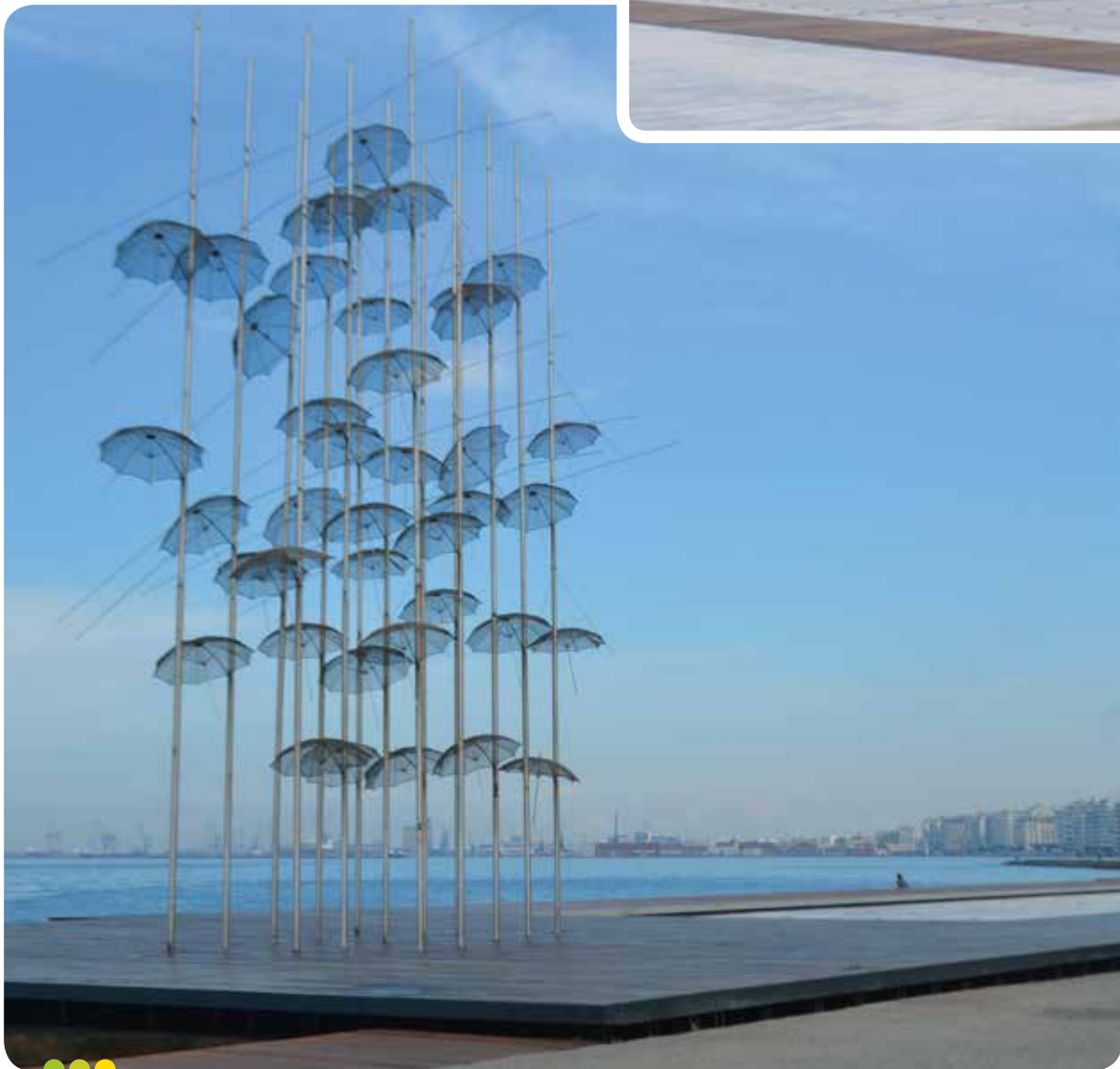
Tyrinopoulos Yannis

About Thessaloniki

Thessaloniki, the second largest city in Greece is a vibrant modern metropolis that hosts the largest academic and research community in the country.

In addition to its rich historical and cultural heritage, Thessaloniki is a major economic, industrial, commercial centre. Moreover, it is the key transportation hub for south-eastern Europe.

The city is renowned for its vibrant cultural life with the colorful events and festivals that make Thessaloniki a must-see destination.



Congress Sponsors



**HELLENIC
PETROLEUM**

Group of Companies

THE HELLENIC PETROLEUM GROUP



- was founded in 1998
- is the largest industrial and commercial Group in Greece and one of the leading energy players in SE Europe
- with activities spanning across the energy value chain and presence in 6 countries
- Refining & Trading of petroleum products, in Greece and abroad.
- Fuels Marketing, in Greece and abroad
- Production & Trading of Petrochemicals/Chemicals
- Oil & Gas Exploration & Production
- Renewable Energy Sources
- Power Generation & Trading
- 3 refineries in Greece and the OKTA industrial installations in Skopje (FYROM)
- 1,700 fuel stations throughout Greece, 295 fuel stations in S.E. Europe
- with more than 3,300 employees
- Having embedded Sustainable Development in its strategy, the Group implements a notable number of CSR activities, focusing on society and the environment.

Hellenic Association of Toll Road Network

HELLASTRON



We deserve quality road networks for a better life

Modern road networks that have been constructed and are in operation in our country have changed the map and the quality of our trips. In parallel, the National Road Network is undergoing extension and improvement. To ensure paramount operation and quality of provided services, motorways and tolled infrastructure that operate in Greece have created the Hellenic Association of Toll Road Network – HELLASTRON. Strictly non-profit, the new association has commenced serving its technocratic and consulting role, so as to promote quality of road transportation to the benefit of every one of us.



With the participation of:





MLS Safe™

Your Smartphone is valuable, as well as its content.

By using **MLS Safe™**, you get **maximum level of Safety and Privacy**, keeping your content your MLS Smartphone for your eyes only.



Incoming messages (Notifications, SMS or message via Viber, WhatsApp, Facebook Messenger, Skype, Instagram, Twitter, Snapchat, etc.)

The text message and the name of the contact or the number of the sender will appear only to you

by placing your fingerprint on the sensor.



Incoming calls (phone calls and calls via Viber, Facebook Messenger, WhatsApp, Skype etc.)

The name or the number of the caller, will appear only to you by placing your fingerprint on the sensor.



Public data
Without Safe



Private data
With Safe



Grand Prize Winner

safe.mls.gr
www.mls.gr

 **MLS**
Making Life Simple

A woman in a dark blue business suit is holding a tablet and looking at it, while a man in a light blue shirt and dark tie stands next to her, looking at the tablet. They are in a modern office with large windows overlooking a city skyline. The background is a light grey gradient with a cluster of circular icons representing various traffic and transportation concepts like cars, buses, bicycles, and signal lights.

TOMORROW'S TRAFFIC SOLUTIONS, TODAY

Your traffic control systems need to talk to each other to manage transport networks efficiently and intelligently. You want to enhance safety for all road users over all modes of transport in a cost-effective way. You have to control your city's traffic like a conductor controls an orchestra. And you need this symphony of solutions now. So talk to us today.

Intertraffic Amsterdam
20 – 23 March 2018
Come and see us on
stands 10.103 and 05.310



8th International Congress on Transportation Research

ICTR 2017

The Future of Transportation: A Vision for 2030
September 27-29, 2017 - Thessaloniki, Greece

Follow us:     www.ictr.gr

Hellenic Institute of Transportation Engineers

Panormou Street 61 GR - 11524 Athens, Greece,
Tel: (+30) 210 3640604, Fax (+30) 210 3609220, www.ses.gr - info@ses.gr

Hellenic Institute of Transport

6th Km Charilaou - Thermi Rd. PO Box 361 - 57001 Thermi, Thessaloniki - Greece
Tel: (+30) 2310498263, Fax (+30) 2310498269, www.hit.certh.gr - hit@certh.gr