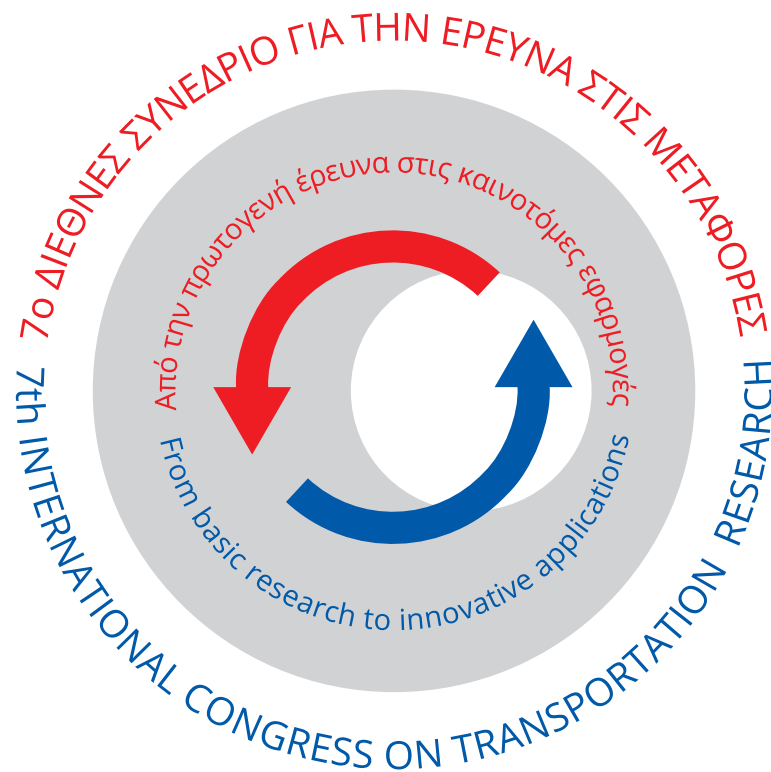

7ο ΣΥΝΕΔΡΙΟ ΓΙΑ ΤΗΝ ΕΡΕΥΝΑ ΣΤΙΣ ΜΕΤΑΦΟΡΕΣ
Από την πρωτογενή έρευνα στις καινοτόμες εφαρμογές

7th INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH
From basic research to innovative applications



5 & 6

of **NOVEMBER 2015**

AMPHITHEATER
Ministry of Infrastructure, Transport and Networks

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PROGRAM



ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΕΡΕΥΝΑΣ ΚΑΙ ΤΕΧΝΟΛΟΓΙΚΗΣ ΑΝΑΠΤΥΞΗΣ
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HELLENIC INSTITUTE OF TRANSPORT



ΣΥΛΛΟΓΟΣ ΕΛΛΗΝΩΝ ΣΥΓΚΟΙΝΩΝΙΟΛΟΓΩΝ
HELLENIC INSTITUTE OF TRANSPORTATION ENGINEERS

ADDRESS BY THE CHAIRMAN OF THE SCIENTIFIC COMMITTEE

The 7th International Congress on Transportation Research in Greece (ICTR 2015) proves once more that the Greek research and scientific personnel along with a large number of agencies and firms from the public and private sectors, is successfully involved in research and technological development as well as in innovative applications in the Transport sector, often beyond its expected capabilities. The high quality and the wide range of the content of the submitted papers in this conference are the undeniable witnesses of this reality. The same applies to the papers submitted by the young researches covering 25% of the total submissions. The young researchers participate as a distinct category for the second consecutive time in this conference demonstrating their potential and the prospects of this new generation.

Personally, I feel quite honoured and happy that I was part of the conference organising team and responsible for the programme; an event that is organized since 2002 by the Hellenic Institute for Transport (HIT) of the Centre for Research and Technology Hellas (CERTH) and the Hellenic Institute of Transportations Engineers (HITE). I also feel quite pleased and satisfied that I was able to cooperate with a large number of important and meritorious colleagues and associates for a common goal, that of another successful conference on Transport Research in a really difficult era in any aspect. I would like to deeply thank them all; without their contribution this event wouldn't be possible.

Finally, I must say that this event is special for another important reason; the two organising institutes will honour the initiator of the HIT/CERTH establishment and also founder of the ICTR series, emeritus Professor and member of the Athens Academy Dr George Giannopoulos. This honorary award comes as a distinction for his long lasting, continuous and high level contribution to the Transport Engineering science and to the Transport Research community.

I truly believe that the conference participants, regardless of their role, will have the opportunity to attend presentations of high level as well as to discuss and to exchange views in the scientific areas of their interest. The presence of Dr Vito Mauro from Italy who will make the keynote speech entitled "From research to applications: the ITS experience" will be an additional stimulus for the audience and will add extra value to this event.

I wish you a fruitful and unforgettable two-day event.

Sincerely,

Prof. Panos Papaioannou
Professor of the Aristotle University of Thessaloniki
Chairman of the Scientific Committee

ADDRESS BY THE CHAIRMAN OF THE ORGANISING COMMITTEE

The 7th International Congress on Transportation Research (ICTR 2015), co-organised by the Hellenic Institute of Transportation Engineers (HITE) and the Hellenic Institute of Transport (HIT) of the Centre for Research and Technology Hellas (CERTH), continues the tradition of the previous congresses and it has been established as the benchmark for the research in transportation in Greece. It consists a significant milestone in the modern research in the transport sector in Greece and it is addressed to all members of the scientific community as well as to the agencies of all levels of policy making.

In a period of steep economic crisis and limited funding allocated for research and development (the relevant expenditures as a percentage of the national GDP in 2013 was 0,78%, when the respective percentage at an EU level reached 2%), the Greek scientists and researchers prove that research and innovation can play a significant role in the technological evolution and scientific progress, two crucial elements for the economic recovery of Greece. The transport sector consists a basic pillar of economic development; therefore novel applications based on outstanding research results are of particular importance. For this reason, the central theme of this congress "From basic research to innovative applications" is very important.

With my capacity as Chairman of the ICTR 2015 Organising Committee I would like to thank all members of the Committee for their cooperation and devotion so that another International Congress on Transportation Research is successful. Furthermore, I would like to thank the Ministry of Infrastructure, Transport and Networks that gave us the Conference Hall, the reviewers and sponsors for their support. I am confident that this event will continue the tradition created by the six previous congresses.

I wish success to the congress' activities.

Sincerely,

Yannis Tyrinopoulos
Assistant Professor of the Technological Educational Institute of Athens
Chairman of the Organising Committee

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C O N F E R E N C E P R O G R A M

THURSDAY, 5 NOVEMBER 2015

- 9:00 – 9:30** **Welcome - Registration**
- 9.30 – 11.30** **Special Session: Theses presentation of young researchers**
Chair: C. Antoniou – Y. Tyrinopoulos
- 11:30 – 12:00** **Coffee Break**
- 12:00 -13:00** **Greetings**
Honorary award ceremony for Professor G.A. Giannopoulos
Chair: P. Papaioannou
- 13:00 – 13:45** **Keynote Speech**
From research to applications: the ITS experience.
Vito Mauro
- 13:45 – 14:30** **Lunch Break**
- 14:30 – 16:00** **Session A: Urban Mobility: Theory and Applications**
Chair: A. Stathopoulos - C. Pirgidis
3. Alternative-collective patterns of ownership and use of passenger cars in the city.
Ioanna Palanta and Christos Taxiltaris
31. Traffic Calming measures: Users' Level of acceptance development through time.
Panagiotis Iordanopoulos, Katerina Chrysostomou and Evangelos Mitsakis
10. Evaluation Methodology for bikeway characteristics in a mid-size city in Greece.
Athanasios Galanis, Pantelis Kopelias, Evangelos Bourazanis, Ioannis Kaltsas and Nikolaos Eliou
57. Impacts of the economic crisis on mode choice and trip frequency of urban transport systems.
Apostolos Papagiannakis, Giannis Baraklianos and Alexia Spyridonidou
54. Attitudinal survey for the urban maritime transport in the city of Thessaloniki, Greece.
Alexandros Dolianitis, Socrates Basbas, Magda Pitsiava-Latinopoulou, George Mintsis and Ioannis Politis
- 16:00 – 16:30** **Coffee Break**
- 16:30 – 18:00** **Session B: Issues in Transport Policy and Economics**
Chair: E. Sambracos – I. Golias
34. The future of transport in Europe: Addressing the Challenges.
Maria Boile, Aggelos Aggelakakis, Anestis Papanikolaou and Alkiviadis Tromaras
66. Investigation of application of the "Value Capture" method for financing the Thessaloniki metro: the case of enterprises.
Andreas Nikiforiadis, Anastasia Roukouni, Socrates Basbas, George Mintsis and Christos Taxiltaris
80. Peak Car Effects on Scheme Appraisal.
Christina Spiliopoulou and Constantinos Antoniou
45. A Multivariate Probit Model for Analyzing Travelers' Choice of Airline Carrier.
Christina Milioti, Matthew Karlaftist and Eleni Akkogiounoglou
81. Highway Infrastructure Investment and Economic Growth at the MSA Level; Accounting for Spillover Effects.
Eirini Kastrouni, Xiang He and Lei Zhang

56. Locational determinants of birth and death of business establishments and their relationship to highway networks.

Srinath Ravulaparthi, Ioannis Tsouros and Konstadinos Goulias

11:30 – 14:30

Parallel Poster Session A: Research Theses

11. A Model for the Supply Vehicle Routing Problem with Route Time Balancing.

Theologia Moustaka, Konstantinos Kepaptsoglou, Nikolaos Lagaros and Matthew Karlaftist

12. Regional rail connection between Thessaloniki and Larissa. Evaluation of the current situation and proposals for the improvement of the level of service provided.

Nikoleta Tsougeni and Christos Pyrgidis

13. Catenary Free Power Supply Systems for Tramways - Comparative Assessment.

Rafail Katkadigkas and Christos Pyrgidis

14. Multivariate Statistical Methods for explaining Powered Two Wheelers' Traffic in Urban Arterials.

Paraskevi Katachanaki, Emmanouil Barmponakis, Eleni Vlahogianni and John Golias

17. Evaluation of Congestion Pricing Policies on Urban Road Network's Traffic.

Lampros Alexandros Papadoulis, Ilias Gkotsis, Eleni Vlahogianni, Konstantinos Kepaptsoglou, John Golias and Christina Milioti

21. The investigation of exogenous influences on public transport performance.

Georgios Georgiadis and Panagiotis Papaioannou

25. Soft mobility scenarios for a sustainable city.

Stella Strataki

27. Comparative assessment of road infrastructure sustainability rating systems.

Evdokia Iliadou, Nikolaos Eliou and Alexandros Zouros

36. Game-theoretical Investigation of Supply and Demand in Aviation Markets.

Ioanna Pagoni and Voula Psaraki-Kalouptsidi

37. Optimal detour choice in an urban freeway.

Vyronas Sarantidis, Pantelis Kopelias, Nikolaos Eliou and Eleni Tyrogianni

38. Effect of vehicle collision type on road accident severity in Greece.

George Yannis, Panagiotis Papantoniou and Olga Reitzopoulou

15:00 – 18:00

Parallel Poster Session B: Research Theses

40. Applications of laser scanning technologies in transport operations.

Ioulia Markou, Constantinos Antoniou, Maria Tsakiri and Andreas Georgopoulos

44. Evaluation of Roadside Wrong-way Warning Systems with Different Type of Sensors.

Jian Xing

46. Comparison of macroscopic and microscopic emission estimation approaches in the evaluation of ITS.

Sokratis Mamarikas, Evangelos Mintsis, Evangelos Mitsakis and Josep Maria Salanova Grau

47. Influencing factors of pedestrian velocity under constraints.

George Kouskoulis and Constantinos Antoniou

49. Developing a Sustainable Mobility Plan in Piraeus with Special Emphasis on Cycling.

Efthimios Bakogiannis, Avgi Vassi, Maria Siti and Georgia Christodouloupoulou

67. GPS Data Collection for Active Transport Modes and Design of Real Life Experiments.

Ioannis Tsouros, Amalia Polydoropoulou and Konstadinos Goulias

68. Rhythms in Urban and Island Areas: Does Lifestyle Affect Daily Dynamics?

Ioannis Tsouros, Amalia Polydoropoulou, Konstadinos Goulias and Athena Tsirimpa

71. Development of a Methodological Framework for Predicting Containers' Dwell Time in Marine Container Terminals – First Results.

Ioanna Kourouniotti, Amalia Polydoropoulou and Xristos Tsiklidis

72. Travel Behaviour Change via Social Marketing interventions.

Foteini Mikiki, Panagiotis Papaioannou and Andreas Oikonomou

73. Analysis of Preferences for the Use of Bicycling Sharing System in Athens.

George Yannis, Panagiotis Papantoniou, Eleonora Papadimitriou and Athina Tsolaki

18:00 – 20:00

Cocktail

FRIDAY, 6 NOVEMBER 2015**9:00 – 11:00****Session C: Research and Applications in Road Safety**

Chair: G. Yannis – V. Halkias

2. Investigation of the degree of implementation of the International Standard ISO 39001:2012 for the management of road safety.

Ilias Keppas and Yannis Tyrinopoulos

5. Methodology for the analysis of the interurban road network in the context of integrated seismic risk management.

Nikolaos Gavanas, Alexandros Sdoukopoulos, Anastasios Tsakalidis and Magda Pitsiava-Latinopoulou

16. Pilot implementation of e-Call system in Greece.

George Patsiavos, Sofia Papatathanasopoulou, Panagiotis Papaspiliopoulos, Dimitris Margaritis, Alexander Stathacopoulos, Evangelia Portouli and Aikaterini Pagle

23. Investigation of motorcycle riders' behavior on rural roads' junctions.

Panagiotis Lemonakis, Nikolaos Eliou and George Botzoris

28. Development of an Educational Scheme for Road Safety Auditors in Greece.

Sophia Vardaki, Anastasios Dragomanovits, Evangelia Gaitanidou, Evangelos Bekiaris and George Kanellaidis

79. Spatial road safety modeling leveraging crowd-sourced publicly available geographic data.

Loukas Dimitriou, Dimitrios Efthymiou and Constantinos Antoniou

11:00 – 11:30**Coffee Break****11:30 -12:30****Intervention by Ms P. Perka, General Secretary for Transport****Sponsors Speeches****Initiatives for the establishment of an integrated network of toll highways in Greece.**

Vasilis Halkias

New Technologies for Road Safety: Shotblasting.

A. Spondylidis, E. Kokkinakis

Award of young researchers**12:30 – 13:45****Session D: Environment and Energy in Transport**

Chair: K. Vogiatzis - E. Bekiaris

6. Comparison of population exposure results at airport noise zones using different noise prediction softwares (INM, IMMI/CadnaA) in the framework of the Corfu strategic noise map.

Konstantinos Vogiatzis, Charalampos Antoniadis, Pantelis Kopelias and Eleni Misokefalou

32. Impact of light conditions on traffic flow.

Charalampia Lagou and Ioanna Spyropoulou

65. Electric Vehicles Charging Infrastructure Location: A Genetic Algorithm Approach.

Dimitrios Efthymiou, Katerina Chrysostomou, Maria Morfoulaki and Georgia Aifantopoulou

30. Evaluation of positive & negative effects from the use of anti-noise barriers as a mitigation measure for road traffic environmental noise.

Konstantinos Vogiatzis, Nikolaos Eliou, Pantelis Kopelias, Eleni Misokefalou and Charalampos Antoniadis

35. Effects of C-ITS on the Environmental Footprint of Vehicular traffic at Signalized Intersections.

Evangelos Mintsis, Josep-Maria Salanova Grau, Evangelos Mitsakis and Georgia Aifantopoulou

13:45 – 14:30**Lunch Break**

- 14:30 – 16:15** **Session E: Policy, Management and Operational aspects in Mobility**
 Chair: G. Aifantopoulou – N. Eliou
8. The exploitation of a controlled parking system in the Municipality of Thessaloniki. Calculating the impacts of alternative parking pricing policies and estimating scenarios.
 Maria Morfoulaki, Kornilia Kotoula and Glikeria Myrovali
26. Simulation-based evaluation of evacuation effectiveness using sensitivity analysis
 Margarita Kostovasili and Constantinos Antoniou
52. Assessment of LOS at pedestrian streets and qualitative factors. A pedestrians' perception approach.
 Olga Lazou, Aggeliki Sakelariou, Socrates Basbas, Evangelos Paschalidis and Ioannis Politis
53. Efficient Management of parking under constraints.
 Vasileia Papathanasopoulou, Ioulia Markou, Constantinos Antoniou, Vassilis Gikas, Athanasios Mpimis, Haris Perakis and George Yannis
75. Policies for Enhancing Mobility in Academic Campuses: The case of CERN
 Athena Tsimpa, Ilias Gkotsis, Konstantinos Kepaptsoglou, Eleni Vlahogianni, Amalia Polydoropoulou and Matthew Karlaftist
41. A Holistic Approach of the Correlation between GDP and Air Transport through Panel Data Analysis.
 Vassilios Profillidis, George Botzoris and Stylianos Taxidis
- 16:15 – 16:30** **Coffee Break**
- 16:30 – 18:00** **Session F: Methodological aspects and applications in Freight and Logistics in Transport**
 Chair: A. Ballis – M. Boile
63. Capitalization of MED projects' outcomes: recommendations for integrating project outcomes into policy frameworks.
 Konstantinos Papoutsis, Eliza Gagatsi, Georgia Aifantopoulou and Panagiotis Tzenos
69. Multi-stakeholder Assessment of Smart Solution in Urban-Interurban Freight Transportation Interfaces.
 Eftichia Nathanail, Michael Gogas and Konstantinos Papoutsis
78. Advanced Cargo Transport Information Services Platform.
 Eleftherios Sdoukopoulos, Afroditi Anagnostopoulou, Maria Boile, Konstantinos Rikkou, Sotirios Theofanis, Christos Georgakopoulos, Georgios Voukas, Petros Pallis, Theodora Todi and Georgios Iliadis
33. Singular Spectrum Analysis – Hybrid Forecasting Methods with Application to Air Transport Demand.
 Kingsley Adjenughwure, Victor Balopoulos and George Botzoris
- 9:00 – 13:00** **Parallel Poster Session C**
4. The Poly-SUMP methodology as a tool for Sustainable Urban Mobility Planning and its application process in the Region of Central Macedonia.
 Afroditi Stamelou, Kostas Konstantinou and Irene Tsakiridou
7. Fuzzy theory application for the improvement of Optimum Route algorithms.
 Konstantinos Mattas, George Botzoris and Basil Papadopoulos
9. Factors affecting professional drivers' response to Variable Message Signs.
 Maria Pouloupoulou and Ioanna Spyropoulou
15. Viability of investments for the development of an electric vehicle charging network in Greece.
 Nikiforos Plytas, Dimitris Margaritis and Maria Boile
18. Fuzzy Sustainability Assessment of Urban Transportation Vehicle Technologies.
 Lambros Mitropoulos and Panos Prevedouros
19. Exploring the potential of a Green Freight Intermodal Transport Cluster in South East Europe.
 Eliza Gagatsi, Elli Papakosma, Annie Kortsari and Elpida Xenou

20. Validation of Everscape, the Evacuation Simulator.

Emmanouil Chaniotakis

24. Should We Promote Cycle Infrastructure in Athens? - A Total Cost Analysis.

Alexandros Deloukas

29. Transportation-related climate change adaption measures.

Iraklis Stamos, Evangelos Mitsakis and Josep-Maria Salanova

39. Road Safety Training through a Master Course in Belarus.

Stergios Mavromatis, Alexandra Laiou, George Yannis, Jo Barnes, Gabriele Giustiniani and Luca Persia

42. Integrated Urban and Transport Planning in Touristic Areas towards Sustainable Mobility: The case of Rethymno, Crete.

Konstantinos Athanasopoulos and Thanos Vlastos

43. Systematic Data Collection from Social Media for Transportation Research.

Emmanouil Chaniotakis, Constantinos Antoniou and Evangelos Mitsakis

48. Complex Network Analysis on Transportation Networks.

Emmanouil Chaniotakis, Evangelos Mitsakis, Josep Maria Salanova Grau and Iraklis Stamos

13:30 – 18:00**Parallel Poster Session D****50. Modelling intermodal freight flows with combined use of Transtools and Cube Cargo. Case study: freight transport in the logistics chains crossing the Adriatic Sea.**

Fani Hatziiioannidou

51. Sustainable student mobility in the city of Serres.

Panagiota Papadopoulou, Foteini Mikiki and Eleftherios Panagiotopoulos

55. Experimental Evaluation of INS/GYRO Smartphone Sensors for Land Vehicle Navigation: Preliminary Testing and Results.

Haris Perakis, Thanassis Mpimis, Chis Danezis, Vassilis Gikas and Constantinos Antoniou

58. Transport Governance Mapping in Thessaloniki, SWOT Analysis and Recommendations.

Spyros Vougias, Katerina Chrysostomou, Georgia Aifantopoulou and Anastasios Tsakalidis

59. Stimulating ITS Deployment in Europe: Barriers and Recommendations.

Maria Chatziathanasiou, Annie Kortsari and Yannis Tyrinopoulos

60. Integrating city logistics into urban mobility policies.

Maria Morfoulaki, Foteini Mikiki, Kornilia Maria Kotoula and Glykeria Myrovali

61. Towards a modern estimate of "value to prevent a fatality" for road crashes in Greece.

Konstantinos Kostovasilis and Constantinos Antoniou

62. A Decision Support System for Evaluating the Athens Bus Network Lines.

Aggelos Gkiokas, Dimitra Katsampi, Eleni Vlahogianni, Konstantinos Kepaptsoglou and Matthew Karlaftist

64. Investigation of issues for improving energy consumption and environmental impacts in rail freight transport.

Athanasios Ballis, Tatiana Moschovou and Eleni Tournaki

70. Assisting Transit Operators in Designing Sustainable Bus Route Networks.

Yannis Tyrinopoulos, Moschoula Pternea, Konstantinos Kepaptsoglou, Dimitrios Kosmopoulos, Markos Papageorgiou and Ioannis Papamichail

74. Development of a National City Network for Sustainable Urban Mobility Plans: Problems and perspectives.

Ioannis Politis, Panagiotis Papaioannou and Anastasia Nikolaidou

76. How does socio-economic status affect the use of CRS and seat belts? Preliminary results from a study in Athens.

Ioanna Armouti, Constantinos Antoniou and George Yannis

77. Critical changes in road safety during economic recession. A comparison between Greece and the USA.

Alexandros Skampardonis and Pantelis Kopelias

82. The iRAP standardized protocols as a tool for infrastructure road safety inspections: the NR6 I/C Velestino (A1) - Volos road section example.

Evangelos Bellos, Stelios Efstathiadis and Steve Lawson

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Οι σύγχρονες οδικές υποδομές που κατασκευάστηκαν και λειτουργούν στη χώρα μας, άλλαξαν το χάρτη και την ποιότητα των μετακινήσεών μας. Παράλληλα, το Εθνικό Οδικό Δίκτυο επεκτείνεται και αναβαθμίζεται. Για τη διασφάλιση της βέλτιστης λειτουργίας και της ποιότητας των παρεχόμενων υπηρεσιών τους, οι αυτοκινητόδρομοι και υποδομές με διόδια που λειτουργούν στην Ελλάδα δημιούργησαν τον νέο φορέα, «Ελληνικές Υποδομές και Οδοί με Διόδια» με τον διακριτικό τίτλο "HELLASTRON" (HELLENIC ASSOCIATION of TOLL ROAD NETWORK). Αυστηρά μη κερδοσκοπικός, ο νέος φορέας ξεκινά να υπηρετεί τον τεχνοκρατικό και συμβουλευτικό του ρόλο, με στόχο την προώθηση της ποιότητας των οδικών μεταφορών προς όφελος όλων μας.



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Με τη συμμετοχή των:

