



# 3<sup>rd</sup> Conference on Sustainable Urban Mobility (3<sup>rd</sup> CSUM)

<http://www.csum.civ.uth.gr/>

@ Room "Iolkos"

Valis Resort Hotel, Stathmos Agrias, Volos, Greece

Thursday 26 May, 2016

## Programme

09:30 – 10:15 Registration

10:15 – 10:30 Opening

10:30 – 13:00 Special Session: COST TU1305 'Social networks and travel behavior'

- The linkage among social networks, travel behavior and spatial configuration – Pnina Plaut, Eftihia Nathanail
- Electric bikes usage potential as a substitute for private car usage in Israel – Or Caspi
- An agent-based pedestrian model considering spatial behavior parameters – Itzhak Omer, Nir Kaplan
- Sustainability analysis on urban mobility based on social media content – Ainhoa Serna, Jon Kepa Gerrikagoitia, Unai Bernabé, Tomás Ruíz
- Definition and classification of parameters for daily activity chain optimization – Domokos Esztergár-Kiss
- The relation between travel behavior, ICT usage and social networks. The design of a web based survey – João de Abreu e Silva, Juan de Oña, Slaven Gasparovic

13:00 – 14:00 Lunch

14:00 – 16:00 Special Session: NOVELOG 'City Logistics in an era of change'

- Smart urban freight transport in the city of Graz – Gerhard Ablasser, Peter Koenig
- Integrated freight 'door-to-door' services and cargo consolidation in Athens – Sofia Bouki
- Assessing the performance of intermodal city logistics terminals in Thessaloniki – Eftihia Nathanail, Michael Gogas, Giannis Adamos
- From gentle mobility to smart city – Gerhard Ablasser
- SUMP and DOT (demand orientated transport) for leisure sites - an antipode? – Peter Koenig

16:00 – 16:15 Coffee Break

16:15 – 18:00 Session: Transportation Interchanges

- Sustainable mobility in small towns like Xanthi – Konstantina Lantitsou, Vasilis Profillidis, Giorgos Kollaros
- Multi-criteria evaluation of public transport interchanges – Zofia Bryniarska, Lidia Zakowska
- Review of intelligent transport solutions in Latvia – Mihails Savrasovs, Roberta Ruggeri, Irina Yatskiv, Dagnija Udre
- Small scale intervention in a major city center interchange. Economic, environmental and sustainability analysis – Aristomenis Kopsacheilis, Giorgos Barmpas, Ioannis Politis
- A comprehensive analysis of planned multimodal public transportation HUB – Irina Yatskiv (Jackiva), Evelina Budilovich

18:00 – 19:40 Session: Activity-Based Transport Modelling

- Optimization of ground vehicle movement at aerodromes – Iyad Alomar, Jurijs Tolujevs
- Green transport in island areas: lessons learned from North Aegean – Ioannis Tsouros, Amalia Polydoropoulou
- Gravity vs radiation model: two approaches on commuting in Greece – Maria Stefanouli, Serafeim Polyzos
- The urban project of HafenCity. Presentation, targets, goals and original applications of the surrounding area, through the pilot use of a set of indicators of the "European Local Transport Information Service (ELTIS)" – Eleftheriou Vasileios, Jörg Knieling

21:00 Dinner @ Agraia Restaurant – Hotel Valis

END OF DAY 1



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## Programme

09:30 – 10:15 Registration

10:15 – 10:30 Opening

10:30 – 13:00 Session: Green Transportation

- ❑ **A "Greening Mobility" framework towards sustainability** – Maria Tsami, Evangelos Bekiaris
- ❑ **The bicycle as a means of ecological, social and economic sustainable mobility** – Eleni Linaki, Maria Lydia Mitritsa, Maria Sifnaiou
- ❑ **Cycling: utilitarian and symbolic dimensions** – Eleni Lourontzi, Stilian Petachti
- ❑ **Micro and macro modelling approaches for the evaluation of the carbon impacts from transportation** – Silvio Nocera, Matteo Basso, Federico Cavallaro
- ❑ **Framework of monitoring urban mobility in European cities** – Aba Attila, Fleischer Tamás, Kukely György
- ❑ **Smart mobility and smart environment in the Spanish cities** – Neus Baucells Aletà, Concepción Moreno Alonso, Rosa M. Arce Ruiz

13:00 – 14:00 Lunch

14:00 – 16:00 Session: Social Networks & Traveller Behavior

- ❑ **Sustainable mobility and physical exercise: a meaningful marriage** – Pantoleon Skayannis, Marios Goudas, Petros Rodakinias
- ❑ **Context-driven regret-based model of travel behavior under uncertainty: a latent class approach** – Eleni Charoniti, Soora Rasouli, Harry Timmermans
- ❑ **City sustainability: the influence of walkability on built environments** – Reihaneh Rafiemanzelat, Aida Jalal Kamali, Maryam Imani Emadi
- ❑ **The effect of major market and societal trends on public transport in European cities** – Margarita Angelidou, Evangelos Genitsaris, El Aissati Hafieda, Aristotelis Naniopoulos
- ❑ **iTrip, a framework to enhance urban mobility by leveraging various data sources** – Praboda Rajapaksha, Reza Farahbakhsh, Eftihia Nathanail, Noel Crespi
- ❑ **Factors affecting the propensity to cycle - the case of Thessaloniki** – Ioanna Spyropoulou, Maria Konstantinidou

16:00 – 16:15 Coffee Break

16:15 – 18:00 Session: Intelligent Transportation Systems - ITS

- ❑ **Designing a Vissim-model for a motorway network with systematic calibration on the basis of travel time measurements** – Ioannis Karakikes, Matthias Spangler, Martin Margreiter
- ❑ **Semantic integration of urban mobility data for supporting visualization** – Thiago Sobral, Teresa Galvão, José Borges
- ❑ **Evaluation of an integrated mobile payment, route planner and social network solution for public transport** – Marta Campos Ferreira, Tânia Fontes, Vera Costa, Teresa Galvão Dias, José Luís Borges, João Falcão e Cunha
- ❑ **Elderly and infomobility services: late bloomers or technology left-outs?** – Iraklis Stamos, George Giannopoulos, Georgia Aifadopoulou, Evangelos Bekiaris, Maria Panou, Katerina Toulidou, Evangelos Mitsakis, Josep Maria Salanova Grau
- ❑ **The importance of intelligent transport systems in the preservation of the environment and reduction of harmful gases** – Firas Th. Alrawi, Seda S. Mesrob

18:00 – 19:40 Session: Safety & Security I

- ❑ **Bluetooth-based travel times for Automatic Incident Detection – A systematic description of the characteristics for traffic management purposes** – Maria Karatsoli, Martin Margreiter, Matthias Spangler
- ❑ **Identification of quality indexes in school bus transportation system** – Kornilia Maria Kotoula, Aggeliki Sakellariou, Maria Morfoulaki, Georgios Mintsis
- ❑ **Pedestrian road safety in relation to urban road type and traffic flow** – Athanasios Galanis, George Botzoris, Nikolaos Eliou
- ❑ **Road safety in urban areas in Greece during economy downturn. A before – after comparison** – Pantelis Kopelias, Mpogas Konstantinos, Lambros Mitropoulos, Konstantinos Kepaptsoglou
- ❑ **A review of resilience management applications in the transport sector** – Evangelia Gaitanidou, Maria Tsami, Evangelos Bekiaris

21:00 Dinner @ Agraia Restaurant – Hotel Valis

END OF DAY 1



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## Programme

09:00 – 11:00

Session: Economic Issues

- Economic crisis and promotion of sustainable transportation: a case survey in the city of Volos, Greece** – Athanasios Galanis, George Botzoris, Anastasios Siapos, Nikolaos Eliou, Vassilios Profillidis
- Assessment of the marginal social cost due to congestion using the speed flow function** – Anastasios Tsakalidis, Nikolaos Gavanas, Magda Pitsiava-Latinopoulou
- Car dealerships and their role in electric vehicles market penetration: a Greek market case study** – Alkiviadis Tromaras, Aggelos Aggelakakis, Dimitris Margaritis
- Total cost of ownership and externalities of electric, hybrid and conventional vehicle** – Lambros K. Mitropoulos, Panos D. Prevedouros, Pantelis Kopelias
- Enhancing sustainable mobility: a business model for the port of Volos** – Vissarion Manginas, Stefania Manoli, Eftihia Nathanail

11:00 – 11:15 Coffee Break

11:15 – 13:15

Session: Environmental Impacts I

- Investigation of the users' acceptance concerning a Low Emission Zone in the center of Thessaloniki, Greece** – Sokratis Basbas, Nikolaos Sfendonis, Giorgos Mintsis, Christos Taxiltaris, Ioannis Politis
- Traffic and environmental impacts of traffic incidents on Thessaloniki's inner ring road** – Eleni Karioti, Socrates Basbas, Evangelos Mintsis, Georgios Mintsis, Christos Taxiltaris
- A Fuzzy and a Monte Carlo simulation approach to assess sustainability and rank vehicles in urban environment** – Lambros K. Mitropoulos, Panos D. Prevedouros, Xin (Alyx) Yu, Eftihia Nathanail
- Sustainable urban mobility indicators: policy versus practice in the case of Greek cities** – Alexandros Sdoukopoulos, Pavlos Tafidis, Magda Pitsiava-Latinopoulou
- Simulating traffic and environmental effects of pedestrianization and traffic management. A comparison between static and dynamic traffic assignment** – Lazaros Giannakos, Evangelos Mintsis, Socrates Basbas, George Mintsis, Christos Taxiltaris

13:15 – 14:15 Lunch

14:15 – 16:15

Session: Environmental Impacts II

- Tackling mobility environmental impacts through the Promotion of student active travel** – Foteini Mikiki, Panagiota Papadopoulou
- Evaluation of sustainable urban mobility in the city of Thessaloniki** – Vasiliki-Maria Perra, Alexandros Sdoukopoulos, Magda Pitsiava – Latinopoulou
- Development and implementation of walkability audits in Greek medium-sized cities: the case of the Serres' city centre** – Alexandros Sdoukopoulos, Anastasios Tsakalidis, Eleni Verani, Anastasia Nikolaidou, Nikolaos Gavanas, Magda Pitsiava-Latinopoulou, Foteini Mikiki, Eleni Mademli, Christos Pallas
- Four stories for sustainable mobility in Greece** – Charalampos Kyriakidis, Efthimios Bakogiannis, Maria Siti, Vasilios Eleftheriou
- An integrated low-cost road traffic and air pollution monitoring platform for next citizen observatories** – Giovanni Gualtieri, Alessandro Zaldei, Francesca Camilli, Tiziana de Filippis, Filippo di Gennaro, Sara di Lonardo, Fabrizio Dini, Beniamino Gioli, Alessandro Matese, Walter Nunziati, Leandro Rocchi, Piero Toscano, Carolina Vagnoli

16:15 – 16:30 Coffee Break

16:30 – 18:30

Session: City Logistics

- Data collection framework for understanding UFT within city logistics solutions** – Andrea Campagna, Alexander Stathacopoulos, Luca Persia, Elpida Xenou
- An advanced solution approach for energy efficient garbage collection service** – Afroditi Anagnostopoulou, Maria Boile, Evangelia Papargyri, Maria Poulou
- Analysis of impacts of the Rail Baltica project: cargo multimodal hubs development** – Deniss Ravtsov (Ravcovs), Irina Yatskiv (Jackiva)
- Broadcast transponders for low flying unmanned aerial vehicles** – Dmitrijs Lancovs

18:30 – 19:00 Closure

END OF DAY 2 – End of 3<sup>rd</sup> CSUM



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09:00 – 11:00	Session: Public Transport and Demand Responsive Systems I
<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Online algorithm for dynamic dial a ride problem and its metrics</b> – Athanasios Lois, Athanasios Ziliaskopoulos</li> <li><input type="checkbox"/> <b>The existing school transportation framework in Greece</b> – Barriers and problems comparing to other European countries – Kornilia Maria Kotoula, George Botzoris, Maria Morfoulaki, Georgia Aifadopoulou</li> <li><input type="checkbox"/> <b>A methodological framework for assessing the success of Demand Responsive Transport (DRT) services</b> – Anestis Papanikolaou, Socrates Basbas, George Mintsis, Christos Taxiltaris</li> <li><input type="checkbox"/> <b>A hybrid approach to the problem of journey planning with the use of mathematical programming and modern techniques</b> – Georgios K.D. Saharidis, Dimitrios Rizopoulos, Afroditi Temourtzidou, Antonios Fragkogios, Nikolaos Cholevas, Asimina Galanou, George Emmanouelidis, Chrysostomos Chatzigeorgiou, Labros Bizas</li> <li><input type="checkbox"/> <b>Mobile payments adoption in public transport</b> – Tânia Fontes, Vera Costa, Marta Campos Ferreira, Li Shengxiao, Pengjun Zhao, Teresa Galvão Dias</li> </ul>	
11:00 – 11:15 Coffee Break	
11:15 – 13:15	Session: Public Transport and Demand Responsive Systems II
<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Towards promoting efficient BRT in Dhaka</b> – Salma Sultana, Mazharul Hoque, Shamima Nasrin</li> <li><input type="checkbox"/> <b>Urban sea transportation in Greece, the case of Skiathos</b> – Athanasios E. Zlatoudis</li> <li><input type="checkbox"/> <b>Investigating the preferences of students towards the creation of a carpooling system serving the academic bodies of Thessaloniki city</b> – Sofia Liakopoulou, Maria Mavromati Kakana, Panagiota Avtji, Evangelos Genitsaris, Aristotelis Naniopoulos</li> <li><input type="checkbox"/> <b>ID based ticketing and mobile tickets make Turku region public transport even more customer-friendly</b> – Sirpa Korte</li> <li><input type="checkbox"/> <b>Shifting towards mass rapid transit in the Maltese islands</b> – Malcolm Cachia</li> </ul>	
13:15 – 14:15 Lunch	
14:15 – 16:15	Session: Safety & Security II
<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Road signage comprehension and overload: the role of driving style and need for closure</b> – Shaun Bortei-Doku, Sigal Kaplan, Carlo Giacomo Prato, Otto Anker Nielsen</li> <li><input type="checkbox"/> <b>The concept of woonerf zone applied in university campuses: the case of the campus of the Aristotle University of Thessaloniki</b> – Dimitrios Nalmpantis, Aristotelis Naniopoulos, Sofia Christina Lampou</li> <li><input type="checkbox"/> <b>Static and dynamic resilience of transport infrastructure and demand: the case of the Athens metro</b> – Alexandros Deloukas, Emy Apostolopoulou</li> <li><input type="checkbox"/> <b>Artificial intelligence and crime prediction in public management of transportation safety in urban environment</b> – Georgios N. Kouziokas</li> <li><input type="checkbox"/> <b>Car-pedestrian and car-cyclist accidents in Hungary</b> – Attila Glász, János Juhász</li> </ul>	
16:15 – 16:30 Coffee Break	
16:30 – 18:30	Session: Accessibility Analysis
<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>The topology of urban road networks and its role to urban mobility</b> – Dimitrios Tsiotas, Serafeim Polyzos</li> <li><input type="checkbox"/> <b>A new anthropocentric approach in accessibility analysis: the activity space and the accessibility measures</b> – Fotini Moustou</li> <li><input type="checkbox"/> <b>Accessibility assessment of urban mobility: the case of Volos, Greece</b> – Dimitrios Tsiotas, Olga Kalantzi, Ioannis Gavardinas</li> <li><input type="checkbox"/> <b>What matters when it comes to "Walk and the City"? Defining a weighted GIS-based walkability index</b> – Alexandros Bartzokas Tsiompras, Yorgos N. Photis</li> <li><input type="checkbox"/> <b>Transforming small towns by remedial street design</b> – Fotini Kehagia</li> </ul>	
18:30 – 19:00 Closure	
END OF DAY 2 – End of 3 <sup>rd</sup> CSUM	