

Program of the 4th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2015)

03.06.2015, Wednesday

plenary session - Tea room		
9:30-10:30	István Varga (BME - Budapest University of Technology and Economics, dean of faculty) Opening and Welcome	László Sándor Kerényi (BKK - Centre for Budapest Transport, Head of Transport Strategy) ITS developments in public transport of Budapest
	coffee break	
<i>Tea room</i>		<i>Kave room</i>
<i>social networks and travel behaviour (Pnina Plaut)</i>		<i>location data based applications 1 (Francesco Viti)</i>
Ruth Conroy-Dalton (Northumbria University) Wayfinding as a social activity		Oliver Michler (Technical University Dresden) Model-based and empirical performance analyses for passenger positioning algorithms in a specific bus cabin environment
Amalia Polydoropoulou (University of Aegean) The influence of social networks on modeling travel behavior: opportunities and challenges		Joschka Bischoff (TU Berlin) Analysis of Berlin's taxi services by exploring GPS traces
Cesare Bartolini (University of Luxembourg) An overview of the limitations to the dissemination of data		Guido Cantelmo (University of Luxembourg) Assessing The Consistency Between Observed And Modelled Route Choices Through GPS Data
Andor Háznyag (BME - Budapest University of Techn.) Complex network analysis of public transportation networks: a comprehensive study		Panagiotis Iordanopoulos (Hellenic Institute of Transport) Impacts of Advanced Traveler Information Systems: The Case of the city of Patras
lunch		
<i>transport modeling 2 (Vincenzo Punzo)</i>		<i>traffic monitoring 1 (Oliver Michler)</i>
Ioulia Markou, C. Antoniou (National Technical University of Athens) Developing insight into effective SPSA parameters through sensitivity analysis		Banihan Gunay (Transport at Akdeniz University) Area-wide ANPR coverage with a small number of instrumented vehicles
Vittorio Marzano (University of Naples Federico II) A Kalman filter for online quasi-dynamic o-d flows estimation/updating		J. Raghothama, M.R. Carretero (KTH - Royal Institute of Technology) Architectures for Distributed, Interactive and Integrated Traffic Simulations
Bojan Kostic (Sapienza University of Rome) Using Traffic Data of Various Types in the Estimation of Dynamic O-D Matrices		Marek Bauer (Cracow University of Technology) The Methodology Of Urban Transport Corridors Evaluation
coffee break		
<i>vehicle energy optimization (Gaetano Fusco)</i>		<i>traffic monitoring 2 (Oliver Michler)</i>
Mario Krumnow (Technical University Dresden) Energy-efficient Routing Strategies based on real-time data of a local traffic management center		Marialisa Nigro (Università degli Studi Roma Tre) Analysis of the demand for an electronic advise of traffic code violations
Johannes Asamer (AIT - Austrian Institute of Technology) The elevation factor: digital elevation model quality and sampling impacts on electric vehicle energy estimation errors		Tamás Lovas (BME - Budapest University of Technology and Econ.) Pedestrian detection by profile laser scanning
András Mihály, Zoltán Ádám Milácska (Eötvös Loránd University) Cost and risk sensitive decision making and control for highway overtaking maneuver		Domonkos Varga (SZTAKI) Pedestrian detection in surveillance videos based on CS-LBP feature
19:00	gala dinner (Danube palace)	

Program of the 4th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2015)

04.06.2015, Thursday

plenary session - Tea room

9:30-
10:30

Guido Gentile (Sapienza University of Rome)
Challenges in model based traffic prediction for real-time mobility management applied to large networks

coffee break

Tea room

traffic modeling and estimation 1 (Gennaro Nicola Bifulco)
 G. Fusco, C. Colombaroni, N. Isaenko (Sapienza University of Rome)
Short-term traffic predictions on large urban traffic networks: applications of network-based machine learning models ...

Tamas Tettamanti (BME - Budapest University of Techn.)
Traffic speed prediction method for urban networks – an ANN approach
 Ioulia Markou, Vasileia Papathanasopoulou, Constantinos Antoniou (National Technical University of Athens)
A demonstration of distribution-based calibration
 Mario Krumnow (Technical University Dresden)
Microscopic real-time traffic simulations to support Advanced Driver Assistance Systems

Gobelín room

public transport optimization 1 (Balázs Horváth)
 Felix Burmeister (DLR - German Aerospace Center)
Optimized energy management of inductively charged electric buses reflecting operational constraints and traffic conditions

Paolo Dell'Olmo (Sapienza University of Rome)
A new approach for train calendar description generation
 Jacek Oskarbski, Krystian Birr (Gdansk University of Techology)
The Average Speed Of Public Transport Vehicles Estimation Based On Data From Traffic Control System

lunch

Kave room

railway traffic optimization (Francesco Corman)
 William Carvajal-Carreno (UPCOMILLAS-KTH)
Energy Efficient Driving Algorithms For Non-Disturbed And Disturbed Trains With The CBTC Signalling System

Nicola Sacco (University of Genoa)
A Modular Model to Schedule Predictive Railway Maintenance Operations
 Camilla Baroncelli, Luigi Costalli (Aleph s.r.l.)
A model for attributing the responsibilities of delay propagation on railway networks
 Pengfei Sun (IFSTTAR)
A Model Pattern of Railway Interlocking System by Petri Nets

traffic modeling and estimation 2 (Guido Gentile)

Maximilian Leadolter (AIT - Austrian Institute of Technology)
Estimating Travel Times from Static Map Attributes
 Maarten Houbraken (Ghent University)
Real-time Traffic Monitoring by fusing Floating Car Data with Stationary Detector Data
 Joaquim Barros (University of Porto)
Short-term real-time traffic prediction methods: a survey

public transport optimization 2 (Paolo Dell'Olmo)

Balázs Horváth, Richárd Horváth (Széchenyi István University)
Estimation of sample size to forecast travel demand in urban public transport

Cs. Csiszár, E. Nagy, D. Karádi (BME - Budapest University of Techn.)
Integrated Information Application on Mobile Devices for Air Passengers
 Géza Katona (BME - Budapest University of Techn.)
Compare Ant-colony and Genetic algorithm and introduce their parallel implementations

road transport communication 1 (Mario Krumnow)

Raphael Riebl, Hendrik Jörn-Günther (Technische Hochschule Ingolstadt)
Artery - Extending Veins for VANET applications
 László Lengyel (BME - Budapest University of Techn.)
ICT In Road vehicles – The VehicleICT Platform
 Felix Burmeister (DLR - German Aerospace Center)
Integrated Modelling of Business Processes and Real Time Communication for Public Transport

coffee break

traffic control and route choice (Guido Gentile)

Rafal Kucharski (Politechnika Krakowska)
Observing rerouting phenomena in dynamic traffic networks
 Wei Huang (KU Leuven)
An integrated approach to adaptive anticipatory traffic control and parameter estimation
 Guido Cantelmo (University of Luxembourg)
Systematic Assessment Of Local & Global Signal Control Policies: A Methodological Perspective

public transport optimization 3 (Luca Quadrifoglio)

Károly Farkas (BME - Budapest University of Techn.)
Simulation Environment for Investigating Crowd-sensing Based Urban Parking
 Mohammad Maghrour Zefreh (BME - Budapest University of Techn.)
Maneuvers analysis of shared taxi and their effects on flow characteristics
 Meng Meng (Nanyang Technological University)
Public Transit Coordination under Different Strategies between Operators

road transport communication 2 (Mario Krumnow)

Zsolt Szalay (BME - Budapest University of Techn.)
ICT In Road Vehicles – Reliable vehicle sensor information from OBD versus CAN
 Tamás Bécsi (BME - Budapest University of Techn.)
Security Issues and Vulnerabilities in Connected Car Systems
 Norbert Varga (BME - Budapest University of Techn.)
LDM-based dynamic network discovery and selection for IPv6 mobility management optimization in C-ITS environments

19:00 conference dinner (panorama boat trip)

Program of the 4th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2015)

05.06.2015, Friday

	<i>Tea room</i>	<i>Gobelín room</i>	<i>Kave room</i>
9:00-10:30	traffic emission and control (Stefano Carrese) Michael Behrisch (DLR - German Aerospace Center) Comparing Emission and Traffic Flow models of different categories	transport policy management 1 (Banihan Gunay) Tiago Azevedo (University of Porto) A State-of-the-art Integrated Transportation Simulation Platform	air traffic management (Dario Pacciarelli) Marcella Sama (Università degli Studi Roma Tre) A variable neighborhood search for optimal scheduling and routing of take-off and landing aircraft
	Bernhard Heilmann (AIT - Austrian Institute of Technology) An Assessment of VMS-Rerouting and Traffic Signal Planning with Emission Objectives in an Urban Network	Csaba Csiszár, Zsolt Sándor (BME - Budapest University of Techn.) Modelling and Analysis Methods of Integrated Information Systems of Transportation	Marina Sergeeva (École Nationale de l'Aviation Civile) 3D Airspace Sector Design by Genetic Algorithm
	Alper Öner (Istanbul Technical University) A Case Study in Istanbul E-80: Intelligent Speed Change at the Highway for Gas Emission	Zsolt Berki (FOMTERV) Tackling sustainable urban transport policy measures in transport models	Zoltán Schváb, Rita Markovits-Somogyi (HungaroControl) Reopening the Kosovo Upper Airspace: Analyzing the first year of operations
coffee break			
11:00-12:30	traffic modeling and assessment (Michael Behrisch) Zoi Christoforou (Université Paris Est) A Transit Bottleneck Model for Waiting Passengers and its Implications for Traffic Assignment	transport policy management 2 (Banihan Gunay) Bertalan Gaál (Széchenyi István University) Status of Land Use and Transport Modelling in Hungary	transport logistics and economics (Dario Pacciarelli) Francesco Corman (Delft University of Technology) Optimizing hybrid operations at large-scale automated container terminals
	Tamás Mátrai (BME - Budapest University of Techn.) How can a transport model be integrated to the strategic transport planning approach – A case study from Budapest	István Fütyü (BME - Budapest University of Techn.) Conceptual analysis of ITS effect on SCGE models	Stefano Carrese, Valerio Cuneo (Università degli Studi Roma Tre) A Cost Evaluation Analysis For Naval Accessibility To Sardinia And Corsica
	Miklós Bánfi (BME - Budapest University of Techn.) PROSPECT - Proactive Safety for Pedestrians and Cyclists	János Monigl (FOMTERV) e-Payment as an Efficient Management Tool for Public Transport	Ferenc Cselle (FOMTERV) The Hungarian national freight transport model
short break			
<i>plenary session - Tea room</i>			
12:40-13:30	Tamás Móricz (HC Linear IT Development Ltd) Vektor System – the complex solution		
	Imre Pechan (evopro Innovation Kft) Dynamic Railway Diagnostic Measurement System István Wahl (evopro Bus Kft) Modularly Built Composite Structured eBus Family		
lunch			
14:30-16:30	BME campus	BME campus	BKK center
	traffic control lab - group 1 (Péter Gáspár)	simulator lab - group 2 (Zsolt Szalay, Dániel Rohács)	BKK traffic management center - group 3 (János Tóth)
		traffic control lab - group 2 (Péter Gáspár)	BKK traffic management center - group 4 (János Tóth)