DEAR EWGT PARTICIPANT,

We would like to welcome you in Budapest to the 20th Euro Working Group on Transportation conference. It is our honour to host you at a very iconic venue, in Hotel Gellért. During the conference we will learn about the newest models and technologies in various fields of transportation, and during the social events we will visit a glamorous location of the city and will enjoy the sunset on the river Danube, which provides an excellent networking opportunity. We sincerely hope that the discussions will lead to new cooperation possibilities, to new common scientific results and maybe to new friendships among the researcher’s society.

Nowadays transportation related solutions require both a holistic approach and a deep understanding in the specific field. This idea is also reflected in the conference program, as it covers topics of transport modeling and control, transport economics and policy, planning and operation, innovative solutions.

We have received almost 400 abstracts, from which more than 180 final papers were accepted. The conference program will run in 5 parallel sessions and with more than 220 participants from almost 30 countries. The submitted papers were reviewed by members of the scientific committee, the international program committees and by external experts. We are very grateful for their voluntary work. We also wish to thank all authors for devoting time and energy to prepare excellent papers for the EWGT 2017 conference.

We believe that after Budapest the reputation of the conference will rise, and we will have the opportunity to meet in many different locations across Europe on further EWGT conferences.

DR. ISTVÁN VARGA
DEAN
FACULTY OF TRANSPORTATION ENGINEERING AND VEHICLE ENGINEERING
BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS (BME)
### 04.09.2017, MONDAY

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<tr>
<td>9:00-10:00</td>
<td>Intr. prof. Jonas Eliasson (City of Stockholm Transportation Department) Achieving support for efficient solutions? A fundamental transport policy dilemma</td>
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<tr>
<td>10:00-11:30</td>
<td>Gobelin room: Simulation and optimization of transportation systems</td>
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<td>11:30-12:30</td>
<td>Zene room: Energy consumption and emission modeling</td>
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<td>12:30-13:00</td>
<td>Forrás room: Heuristic methods in optimization</td>
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<td>13:00-13:45</td>
<td>Kávé room: Automatic data collection methods</td>
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<td>Coffee break</td>
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<tr>
<td>15:30-16:00</td>
<td>Tea room: Management of intelligent rail transport systems</td>
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### 05.09.2017, TUESDAY

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<td>Gala dinner</td>
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**CONFERENCE PROGRAM**
06.09.2017, WEDNESDAY

9:00 - 10:00

Plenary session - Tea room

Prof. Francesco Viti
(University of Luxembourg)
Understanding Daily Demand Flows in the Era of Big Data

10:30 - 12:30

Tea room
Gobelin room
Zene room
Forrás room
Kávé room

10:30 - 12:30

Dynamic network modeling and optimization
Transportation economics and financing
Control and management of transportation systems
Human factors and travel behavior
Transportation planning and traffic engineering

13:30 - 15:30

Lunch

13:30 - 15:30

Dynamic network modeling and optimization
Big data in transportation
Vehicle routing and route planning
Road safety and human factors
Air transport operations

16:00 - 17:30

Land use and transport interactions
Road transport services
City logistics
Human factors
Transport related services

17:30 - 18:00

Plenary session - Tea room

Closing session

KEYNOTE SPEECH

Topic: Responsible mobility management for liveable Budapest

BKK Centre for Budapest Transport - established in 2010 – is acting as a responsible mobility manager of the city providing strategic planning and organising public transport services, harmonising travel demand based upon sustainability principles. As a result of the past years' development and innovation, Budapest managed to join the league of metropolises that have an efficient transport governance system with an integrated mobility manager, a sustainable urban mobility plan (SUMP) and a public transport system that provides better services, integrated transport infrastructure with more connections and has attractive vehicles, is customer oriented and values quality and innovation. A responsible mobility manager has to be committed to helping citizens to become smart travellers with reasonable mobility choices, and be aware and implement the latest trends in mobility, such as e-mobility, automation, public participation, mobility as a service and sharing based mobility.

Speaker: Dr. Kálmán Dabóczi
(CEO of BKK Centre for Budapest Transport)

Dr Kálmán Dabóczi has been working in the transport sector in middle and upper management level positions, with special focus on public transport, for nearly a decade. Prior to his appointment as CEO of BKK Centre for Budapest Transport, he was responsible for the management and ministerial supervision of the Budapest Transport Association (BKSZ). Dr Dabóczi was Head of Division for Transport Sciences and General Deputy of the Managing Director at KTI Institute for Transport Sciences from 2011 to 2014. Previously, between 2006 and 2014, he worked as chief advisor at the State Secretariat for Infrastructure of the Ministry of National Development where he participated in the law-making process of the Act on Passenger Transport Services. Dr Dabóczi also participated in several sector reform programmes and provided expert decision support for the transformation of state-owned transport service providers, such as the reorganisation of the MAV Hungarian State Railways Group. Dr Dabóczi also plays an active role in the work of the Transport Science Association.
Urban transport planning is characterized by the scarcity of space and several kinds of externalities such as congestion and emissions. This means that the cornerstones of urban transport planning are 1) space-efficient ways of transportation, e.g. attractive public transport, smart logistics etc. 2) ways to internalize externalities, e.g. congestion pricing, emission control zones etc. In principle, these strategic planning principles are well understood by transport planners and economists. The hitch is that such measures often meet resistance from politicians and the general public. There are several obstacles for implementing smart and efficient urban mobility solutions, including the inherent shortsightedness of politics (future citizens don’t vote in today’s elections), status quo bias, resistance against pricing as an allocation measure, failure by decision-makers to choose the most cost-efficient investments and many others. This talk discusses the nature of some of these obstacles, and provides ideas for how they can be overcome.

The next decades will be characterized by greater investments on sensor technologies and Intelligent Transportation Systems, to facilitate the paradigm shift towards full automation and connectivity in transport and mobility. If intelligent vehicles and the smart mobility services will partly mitigate the random nature of human factors, not everything in the future will be predictable. Demand flows will still unavoidably be driven by personal mobility needs, and travel choices will, on the contrary, become more complex and ill predictable due to an increasing number of multimodal and interacting sharing options. This talk will provide an overview of the current and future challenges in capturing and modeling daily mobility patterns from various sources of (big) data (GSM, floating car data, smartphones, etc.), and proposes a list of ingredients in both models and technologies, which are deemed necessary to estimate dynamic demand flows that are consistent with the observed daily activity-travel behavior.

Speaker: Prof. Jonas Eliasson
(Director of the City of Stockholm Transportation Department)

Jonas Eliasson is Director of the Stockholm City Transport Administration, on part-time leave from his full professorship in Transport Systems Analysis at the KTH Royal Institute of Technology. His research interests center around transport policy design and evaluation, including cost-benefit analysis, transport pricing, decision making in the transport sector, and public and political acceptability of transport policies. Prof. Eliasson has a long involvement in analyzing, developing and applying transport policies and appraisal methodologies, acting as expert advisor to a large number of city leaders and national governments on strategic transportation issues, often involving sustainable transport planning, transport pricing and social and economic appraisal. He has been heavily involved in the design and evaluation of the congestion pricing systems in Stockholm and Gothenburg, and has chaired the national committee for analysis of the National Transport Investment Plan.

Speaker: Prof. Francesco Viti
(Associate professor at the University of Luxembourg)

Francesco Viti is Associate Professor in Transportation Engineering at the University of Luxembourg, as well as associate professor within the Interdisciplinary Center for Security, Reliability and Trust and the MIT-Luxembourg Center for Logistics. He is the head of the MobiLab Transport Research Group, where research and teaching activities range from mobility analysis and management, development of decision support systems for travellers and for transport operators, Intelligent Transport Systems and network modeling and control. Having a strong interdisciplinary vision, combining engineering, computer science and social sciences, his team has well-established collaborations with different national and international academic and industrial partners. He is author of more than 60 publications, and more than 150 conference papers, reviewer of most of the top journals in the transportation domain, Associate Editor of Journal of ITS and Transportation Research Part C and acts as Scientific Committee member for the major conferences in transportation.
VENUE

HOTEL GELLÉRT is an art nouveau style, 4 star hotel in the heart of the city. The venue is on the side of the Danube, connected to one of the most famous spas in Budapest. The Gellért Bath was built in the preceding decades, and opened its doors in 1918. Outdoor pools were added later on, and today it combines modern technical developments with rich historical heritage.

The conference will be also located in Hotel Gellért with 5 parallel sessions, 1 room on the ground floor (Forrás), 3 rooms on the first floor (Tea, Gobelin, Kávé) and 1 room in the second floor (Zene). Wi-Fi connection is free of charge.

SOCIAL EVENTS

GROUP PHOTO
In order to make this conference memorable, we would like to take a group photo with the background of the facade of Hotel Gellért.

CONFERENCE DINNER – PANORAMA BOAT TRIP
A 3 hour panorama boat trip starting from Gellért port (ca. 200 m from the hotel) will be organized. All you can eat buffet will be provided with 3 drinks included. During the dinner the ship sails on the river Danube along the most famous sights of Budapest, as Gellért Hill, Buda Castle, Parliament, Chain Bridge and Margaret Island. It is possible to enter the deck of the ship and enjoy the panorama of Budapest during sunset.

The ship sails exactly at 19:00, and cannot wait for late arrivals!

Location: 1111 Budapest, Szent Gellért tér 1, Gellért port
SOCIAL EVENTS

GALA DINNER – VAJDAHUNYAD CASTLE

On the second evening we will visit a precious castle located in the City Park (Varosliget) by a boating like, nearby Heroes Square, to be accessed with the Millenium Underground. Vajdahunyad Castle is one of the romantic castles in Budapest, and despite all appearances it was built in 1896. The castle is in fact a fantasy pastiche showcasing the architectural evolution through centuries and styles in Hungary. Special foods and drinks will be served during our stay in the most glamorous room of the palace.

BUDAPEST is the capital of Hungary with about 1.75 million inhabitants. The city was founded in 1873 uniting Buda, Pest and Óbuda, however the history of the city goes back to the Roman times. Budapest is the political, cultural and commercial center of the country, but also a city of surprises with its lively centre, pretty parks, majestic river, tall church spires and relaxing spas. Especially in the last decade the city has become one of the most visited destinations in Europe among young people. More UNESCO World Heritage sites and beautiful buildings form the XIX. century are to be found in the city. Budapest was chosen by several traveling websites to one of the best and most interesting cities of the world.

Tradition and innovation are typical keywords when thinking about the transportation system of Budapest and in general terms of Hungary. Budapest launched the first metro line in the European continent in 1896 and a state-of-the-art bike-sharing system was opened in 2013. In green urban areas on the hilly side of Buda there are peculiar means of transport, such as children’s railway, which is a touristic narrow gauge railway line opened in 1948. In the dense business area of Pest the longest trams are running on the busiest tram line of Europe used by ca 220,000 passengers. Connecting Buda and Pest on the two sides of the Danube a fully automated metro line serves passengers as a modern transportation mode.

You may travel with tram 47 or 49 (in direction “Deák Ferenc tér”, for 4 stop, change at the final station “Deák Ferenc tér”), take the Millenium Underground M1 (in direction “Mexikói út”, for 8 stops, change at “Széchenyi fürdő”), then you have to walk only 400 m, crossing the main road in the direction of the boating lake, where you will see a castle.

The whole journey will take ca 30 minutes. You may buy tickets from the automatic vending machine in the stop in front of Hotel Gellért.

GALATINUS - S C Y C L E S

You may travel with tram 47 or 49 (in direction “Deák Ferenc tér”, for 4 stop, change at the final station “Deák Ferenc tér”), take the Millenium Underground M1 (in direction “Mexikói út”, for 8 stops, change at “Széchenyi fürdő”), then you have to walk only 400 m, crossing the main road in the direction of the boating lake, where you will see a castle.

The whole journey will take ca 30 minutes. You may buy tickets from the automatic vending machine in the stop in front of Hotel Gellért.

Time: 05.09.2017, Tuesday, 19:00 (individual travel to the location)
Location: 1146 Budapest, Vajdahunyad vár (in Varosliget)

Recreational opportunities
Gellérthaus
Széchenyi bath
City park with Zoo
Margaret Island
Opera House

Cultural highlights
Buda Castle district
Statue of Liberty on Gellért Hill
Chain Bridge
Parliament
St. Stephen’s Basilica
Heroes Square

HOSTING CITY
Budapest University of Technology and Economics (BME) was founded in 1782, and is one of the largest higher educational institutions in engineering in Central Europe with about 24,000 students and 1,200 teachers and researchers. The Faculty of Transportation Engineering and Vehicle Engineering (BME KJK) aims to be the scientific center in the fields of transportation engineering, vehicle engineering and logistics engineering. As the national knowledge centre the Faculty’s mission defines the undertaking of high level of scientific activity, research and development, offering expertise and consultation to transport and vehicle industry companies, the logistics services sector and to industrial policy makers. The Faculty maintains active relationships with key European education institutions in similar areas of training, and encourages the versatile mobility of lecturers, researchers and students, and the establishment and development of their personal and professional relationships.

BME KJK has participated in 4 FP5, in 7 FP6 and in 9 FP7 projects and has already 4 running Horizon 2020 projects. Regarding the number of publications BME is on the top of the Hungarian Universities. Our research team is also active in interregional programs, as COST Actions, Central Europe, Danube Transnational Program and Visegrad Fund. The Faculty is member of significant international scientific organizations, as European Association for Research in Transportation (hEART), European Conference of Transport Research Institutes (ECTRI), Association for European Transport (AET).

The Department of Transport Technology and Economics has been carrying out research and education in the interdisciplinary fields of transportation engineering and economics for about 60 years, focusing on questions like strategic and operative planning, operation and management, decision support in transport and logistics, ITS development, evaluation and control of transport networks, analysis of passenger and freight transport processes also with regard to the aspects of transport safety and sustainability.

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<th>Name</th>
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<td>Ádám Török</td>
<td>Hungary</td>
<td>Budapest University of Technology and Economics</td>
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<td>Agostino Nuzzolo</td>
<td>Italy</td>
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<td>Amalia Polydoropoulou</td>
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<td>Andrea D’Ariano</td>
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<td>Andrés Monzon</td>
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<td>Árpád Barsi</td>
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<td>Uwe Clausen</td>
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<td>Fraunhofer-Institute for Material Flow and Logistics</td>
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<td>Hani Mahmassani</td>
<td>USA</td>
<td>Northwestern University Transportation Center</td>
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<td>Harry Timmermans</td>
<td>The Netherlands</td>
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<td>Uwe Clausen</td>
<td>Germany</td>
<td>Fraunhofer-Institute for Material Flow and Logistics</td>
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MONDAY, SEPTEMBER 4TH

09:00-10:00 PLENARY SESSION
LOCATION: TEA ROOM

09:00  István Varga (Budapest University of Technology and Economics, Hungary)
OPENING AND WELCOME

09:10  Riccardo Rossi (University of Padova, Italy)
SUMMARY OF THE ANNUAL ACTIVITIES OF EWGT

09:15  Kálmán Dabóczi (BKK Centre for Budapest Transport, Hungary)
PUBLIC TRANSPORTATION DEVELOPMENT IN BUDAPEST

10:00-10:30 COFFEE BREAK

10:30-12:30 TRAFFIC FLOW MODELING
CHAIR: RICCARDO ROSSI (UNIVERSITY OF PADOVA, ITALY)
LOCATION: TEA ROOM

10:30  Antonio Sánchez Soliño (Universidad Politécnica de Madrid, Spain)
Antonio L. Lara Galera (Universidad Politécnica de Madrid, Spain)
Fernando Cabero Colín (Universidad Politécnica de Madrid, Spain)
MEASURING UNCERTAINTY OF TRAFFIC VOLUME ON MOTORWAY CONCESSIONS:
A TIME-SERIES ANALYSIS

11:00  Riccardo Rossi (University of Padova, Italy)
Federico Rupi (University of Bologna, Italy)
Federico Pascucci (Technical University of Braunschweig, Germany)
Alessandra Mantuano (University of Bologna, Italy)
FITTING TIME HEADWAY AND SPEED DISTRIBUTIONS FOR BICYCLES AT SEPARATED
BICYCLE LANE

11:30  Rafael Mena Yedra (Universitat Politècnica de Catalunya / TSS – Transport Simulation
Systems S.L., Spain)
Ricard Gavaldà (Universitat Politècnica de Catalunya, Spain)
Jordi Casas (TSS – Transport Simulation Systems S.L., Spain)
ADARULES: LEARNING RULES FOR REAL-TIME ROAD-TRAFFIC PREDICTION

12:00  Borja Alonso (GIST- Departamento de Transportes y Tecnología de Proyectos y Procesos.
Universidad de Cantabria, Spain)
Ángel Ibañes Pórtilla (GIST- Departamento de Transportes y Tecnología de Proyectos y
Procesos. Universidad de Cantabria, Spain)
Giuseppe Musolino (DIIES-Università Mediterranea di Reggio Calabria, Italy)
Corrado Rindone (DIIES-Università Mediterranea di Reggio Calabria, Italy)
Antonino Vitetta (DIIES-Università Mediterranea di Reggio Calabria, Italy)
NETWORK FUNDAMENTAL DIAGRAM (NFD) AND TRAFFIC SIGNAL CONTROL: FIRST
EMPIRICAL EVIDENCES FROM THE CITY OF SANTANDER
10:30-12:30 DECISION SUPPORT ANALYSIS AND OPERATION RESEARCH
CHAIR: GRZEGORZ SIERPINSKI (SILESIAN UNIVERSITY OF TECHNOLOGY, POLAND)
LOCATION: GOBELIN ROOM

10:30 Bartosz Sawik (AGH University of Science and Technology, Poland)
Javier Faulin (Universidad Pública de Navarra, Spain)
Elena Pérez-Bernabeu (Universitat Politècnica de València, Spain)
MULTI-CRITERIA OPTIMIZATION FOR FLEET SIZE WITH ENVIRONMENTAL ASPECTS

11:00 Jacek Żak (Poznan University of Technology, Poland)
MULTIPLE-CRITERIA AND GROUP-DECISION MAKING IN THE FLEET SELECTION PROBLEM FOR A PUBLIC TRANSPORTATION SYSTEM

11:30 Tânia Fontes (FEUP - Faculty of Engineering University of Porto, Portugal)
Jorge Pinho de Sousa (FEUP - Faculty of Engineering University of Porto, Portugal)
Teresa Galvão (FEUP - Faculty of Engineering University of Porto, Portugal)
A MULTI-USER INTEGRATED FRAMEWORK FOR SUPPORTING THE DESIGN AND MANAGEMENT OF URBAN MOBILITY SYSTEMS

12:00 Elpidio Romano (International Telematic University of Uninettuno UTIU, Italy)
Adacher Ludovica (Roma Tre, Italy)
Marta Flamini (International Telematic University of Uninettuno UTIU, Italy)
Manuele Guaita (Roma Tre, Italy)
A DECISION SUPPORT MODEL TO MANAGE/DESIGN A TERMINAL AREA IN THE AIRPORT

10:30-12:30 ADVANCED VEHICULAR COMMUNICATION TECHNOLOGIES
CHAIR: OLIVER MICHLER (TU DRESDEN, GERMANY)
LOCATION: ZENE ROOM

10:30 Ellen F Grumert (Swedish National Road and Transport Research Institute (VTI) and Linköping University, Sweden)
Andreas Tapani (Swedish National Road and Transport Research Institute (VTI), Sweden)
USING CONNECTED VEHICLES IN A VARIABLE SPEED LIMIT SYSTEM

11:00 Yukimasa Matsumoto (Meijo University, Japan)
Shogo Ishiguro (Meijo University, Japan)
EFFECT OF INFORMATION PROVISION TO FOLLOWING VEHICLE ON REDUCING AMOUNT OF CO2 EMISSIONS AND SAFETY DRIVE

11:30 Oliver Michler (TU Dresden, Germany)
Benjamin Reichelt (TU Dresden, Germany)
Sven Eckelmann (HTW Dresden, Germany)
Toralf Trautmann (HTW Dresden, Germany)
Hagen UBler (TU Dresden, Germany)
V2V-COMMUNICATION, LIDAR SYSTEM AND POSITIONING SENSORS FOR FUTURE FUSION ALGORITHMS IN CONNECTED VEHICLES

12:00 Olivér Tórs (Budapest University of Technology and Economics, Hungary)
Tamás Bácsyi (Budapest University of Technology and Economics, Hungary)
Szilárd Aradi (Budapest University of Technology and Economics, Hungary)
PERFORMANCE EVALUATION OF A BERNOULLI FILTER BASED MULTI-VEHICLE COOPERATIVE OBJECT DETECTION

10:30-12:30 PUBLIC TRANSPORT PLANNING AND OPERATION
CHAIR: AGOSTINO NUZZOLO
(DEPT. OF ENTERPRISE ENGINEERING - UNIVERSITY OF ROME TOR VERGATA, ITALY)
LOCATION: FORRÁS ROOM

10:30 Marialisa Nigro (Roma Tre University, Italy)
Raffaella Calò (Roma Tre University, Italy)
Valentina Conti (ENEA, Italy)
Silvia Orchi (ENEA, Italy)
Maria Pia Valentini (ENEA, Italy)
DESIGN AND EVALUATION OF ELECTRIC SOLUTIONS FOR PUBLIC TRANSPORT

11:00 Jishnu Narayan (TU Delft, Netherlands)
Oded Cats (TU Delft, Netherlands)
Niels van Oort (TU Delft, Netherlands)
Serge Hoogendoorn (TU Delft, Netherlands)
PERFORMANCE ASSESSMENT OF FIXED AND FLEXIBLE PUBLIC TRANSPORT IN A MULTI AGENT SIMULATION FRAMEWORK

11:30 Antonio Comi (Dept. of Enterprise Engineering - University of Rome Tor Vergata, Italy)
Agostino Nuzzolo (Dept. of Enterprise Engineering - University of Rome Tor Vergata, Italy)
Stefano Brinchi (Rome Mobility Agency, Italy)
Renata Verghini (Rome Mobility Agency, Italy)
BUS TRAVEL TIME VARIABILITY: SOME EXPERIMENTAL EVIDENCES

12:00 Marta Campos Ferreira (University of Porto – Faculty of Engineering, Portugal)
Vera Costa (University of Porto – Faculty of Engineering, Portugal)
Teresa Galvão (University of Porto – Faculty of Engineering, Portugal)
João Falcão E Cunha (University of Porto – Faculty of Engineering, Portugal)
UNDERSTANDING COMMERCIAL SYNERGIES BETWEEN PUBLIC TRANSPORT AND SERVICES LOCATED AROUND PUBLIC TRANSPORT STATIONS
10:30-12:30 ACTIVE TRAVEL MODES
CHAIR: MADDALENA NONATO (UNIVERSITY OF FERRARA, ITALY)
LOCATION: KÁVÉ ROOM

10:30
Mateus Humberto Andrade (CERIS, Instituto Superior Técnico, Universidade de Lisboa; Escola Politécnica, Universidade de São Paulo, Portugal)
Rodrigo Deussdar Laboissière (Escola Politécnica, Universidade de São Paulo, Brazil)
Marina Abrantes Giannotti (Escola Politécnica, Universidade de São Paulo, Brazil)
Daniel Agostini Cruz (Escola Politécnica, Universidade de São Paulo, Brazil)
Henrique Barbosa Primon (Escola Politécnica, Universidade de São Paulo, Brazil)
Claudio Luiz Marte (Escola Politécnica, Universidade de São Paulo, Brazil)

WALKING AND WALKABILITY: DO BUILT ENVIRONMENT MEASURES GO ALONG WITH PEDESTRIAN ACTIVITY?

11:00
Mark Meeder (ETH Zürich, Switzerland)
Tobias Aebi (ETH Zürich, Switzerland)
Ulrich Weidmann (ETH Zürich, Switzerland)

THE INFLUENCE OF SLOPES ON WALKING ACTIVITY

11:30
Ana Paula Barros (UniceUB (Brasilia/Brazil)/ IST-UL (Lisbon/Portugal), Brazil)
Luis Miguel Martínez (ITF-OECD (International Transport Forum), France)
José Manuel Viegas (ITF-OECD (International Transport Forum), France)

HOW URBAN FORM PROMOTES WALKABILITY?

12:00
Francesco Bella (Roma TRE University, Italy)
Manuel Silvestri (Roma TRE University, Italy)
Valentina Natale (Roma TRE University, Italy)

DRIVER-PEDESTRIAN INTERACTION UNDER DIFFERENT ROAD ENVIRONMENTS

12:30-13:30 LUNCH BREAK

13:30-15:30 TRAFFIC FLOW MODELING
CHAIR: GUIDO GENTILE (SAPIENZA UNIVERSITY OF ROME, ITALY)
LOCATION: TEA ROOM

13:30
Zsolt Berki (FŐMTERV Ltd., Hungary)
Janos Monigl (FŐMTERV Ltd., Hungary)

TRIP GENERATION AND DISTRIBUTION MODELLING IN BUDAPEST

14:00
Alexis Poulhès (ENPC-LVMT, France)
Cyril Pivano (ENPC-LVMT, France)
Fabien Leurent (ENPC-LVMT, France)

HYBRID MODELING OF PASSENGER AND VEHICLE TRAFFIC ALONG A TRANSIT LINE: A SUB-MODEL READY FOR INCLUSION IN A MODEL OF TRAFFIC ASSIGNMENT TO A CAPACITATED TRANSIT NETWORK

14:30
Roberta Di Pace (Dipartimento di Ingegneria Civile, Università degli Studi di Salerno, Italy)
Giulio Erberto Cantarella (University of Salerno, Italy, Italy)
Stefano de Luca (University of Salerno, Italy)
Massimo Di Gangi (Università di Messina, Italy)

SCHEDULED SYNCHRONISATION BASED ON A MESOSCOPIC FLOW MODEL WITH SPEED DISPERSION

15:00
Simon Cohen (IFSTTAR, France)
Zoi Christoforou (École des Ponts ParisTech, France)
David Gil (CEREMA, France)

NEW RAMP METERING AND DYNAMIC SPEED CONTROL ON THE A25 MOTORWAY: THE EFFICIENCY OF COMBINED MEASURES

13:30-15:30 DECISION SUPPORT ANALYSIS AND OPERATION RESEARCH
CHAIR: JAVIER FAULIN
(DEPARTMENT OF STATISTICS AND OR. PUBLIC UNIVERSITY OF NAVARRE, SPAIN)
LOCATION: GOBELIN ROOM

13:30
André Romano Alho (Singapore-MIT Alliance for Research and Technology, Singapore)
Monique Stinson (Massachusetts Institute of Technology, USA)
Diem Trinh Le (Singapore-MIT Alliance for Research and Technology, Singapore)
Raja Gopalakrishnan (Singapore-MIT Alliance for Research and Technology, Singapore)
Bhavathrathan Kuzhiyamkunnath (Singapore-MIT Alliance for Research and Technology, Singapore)

A MULTI-SCALE AGENT-BASED MODELLING FRAMEWORK FOR URBAN FREIGHT DISTRIBUTION

14:00
Lorant Tavasszy (Delft University of Technology, Netherlands)
Jafar Rezaei (Delft University of Technology, Netherlands)

MEASURING SHIPPERS’ PREFERENCES FOR FREIGHT TRANSPORT SERVICE ATTRIBUTES USING MCDA METHODS

14:30
Daniel Eisenberger (Zurich University of Applied Sciences, Switzerland)
Olga Dr. Fink (Zurich University of Applied Sciences, Switzerland)

ASSESSMENT OF MAINTENANCE STRATEGIES FOR RAILWAY VEHICLES USING PETRI-NETS
15:00 Shalini Kurapati (TU Delft, Netherlands)
Ioanna Kourouunioti (TU Delft, Netherlands)
Heide Lukosch (TU Delft, Netherlands)
Lóránt Tavasszy (TU Delft, Netherlands)
Geertje Bekebrede (TU Delft, Netherlands)
Alexander Verbraeck (TU Delft, Netherlands)
Jaco van Meijeren (TNO, Netherlands)
Layla Lebesque (TNO, Netherlands)
**SITUATION AWARENESS IN SYNCHROMODAL FREIGHT CORRIDOR MANAGEMENT: A SIMULATION GAMING STUDY**

**CONFERENCE PROGRAM**

13:00-15:30 AUTONOMOUS VEHICLE SYSTEM APPLICATIONS
CHAIR: GIULIO ERBERTO CANTARELLA (UNIVERSITY OF SALERNO, ITALY)
LOCATION: ZENE ROOM

13:30-14:00 Jaâfar Berrada (VEDECOM - LVMT, France)
Fabien Leurent (Université Paris-Est LVMT, France)
**MODELLING TRANSPORTATION SYSTEMS INVOLVING AUTONOMOUS VEHICLES: A STATE OF THE ART**

14:00-14:30 Lígia Conceição (Department of Civil Engineering, Faculty of Engineering of the University of Porto, Portugal)
Gonçalo Correia (Department of Transport & Planning, Delft University of Technology, Netherlands)
José Pedro Tavares (Department of Civil Engineering, Faculty of Engineering of the University of Porto, Portugal)
**THE DEPLOYMENT OF AUTOMATED VEHICLES IN URBAN TRANSPORT SYSTEMS: A METHODOLOGY TO DESIGN DEDICATED ZONES**

14:30-15:00 Toru Seo (Tokyo Institute of Technology, Japan)
Yasu Asakura (Tokyo Institute of Technology, Japan)
Takahiko Kuwabara (Center for Spatial Information Science, the University of Tokyo, Japan)
**ENDOGENOUS MARKET PENETRATION DYNAMICS OF AUTOMATED AND CONNECTED VEHICLES: TRANSPORT-ORIENTED MODEL AND ITS PARADOX**

15:00-15:30 Wolfgang Kühn (University of Applied Science Zwickau, Germany)
**ROAD DATA AS PRIOR KNOWLEDGE FOR HIGHLY AUTOMATED DRIVING**

**CONFERENCE PROGRAM**

13:30-15:30 CHOICE MODELING
CHAIR: ANTONIO COMI
(DEPT. OF ENTERPRISE ENGINEERING - UNIVERSITY OF ROMER TORGATA, ITALY)
LOCATION: FORRÁS ROOM

13:30-14:00 Weibo Li (University College London, UK)
Maria Kamargianni (University College London, UK)
**HYBRID CHOICE MODEL TO STUDY BIKE-SHARING CHOICE IN CHINA**

13:30-14:00 Ana Barberan (Universidad Politecnica de Madrid, Spain)
João de Abreu E Silva (Instituto Superior Técnico, Portugal)
Andres Monzon (Transport Research Centre (TRANSyT), Spain)
**FACTORS INFLUENCING BICYCLE USE: A BINARY CHOICE MODEL WITH PANEL DATA**

14:00-14:30 Felipe González-Valdés (Pontificia Universidad Católica de Chile, Chile)
Sebastián Raveau (Pontificia Universidad Católica de Chile, Chile)
**MODELLING AIR TRAVEL BEHAVIOUR WITH HETEROGENEOUS CHOICE MECHANISMS AT AN INDIVIDUAL LEVEL**

14:30-15:00 János Juhász (Budapest University of Technology and Economics, Hungary)
**INFLUENCE OF DIFFERENT ROUTE-CHOICE DECISION MODES**

15:00-15:30 Miriam Enzi (AIT Austrian Institute of Technology, Austria)
Benjamin Biesinger (AIT Austrian Institute of Technology, Austria)
Sophie Parragh (Johannes Kepler University Linz, Austria)
**PLANNING SHARED CORPORATE MOBILITY SERVICES**
CONFERENCE PROGRAM

16:00-18:00 MULTI-MODAL TRANSPORTATION
CHAIR: MICHELE OTTOMANELLI (TECHNICAL UNIVERSITY OF BARI, ITALY)
LOCATION: TEA ROOM

16:00
Abdelfattah Idri (Ecole Nationale de Commerce et de Gestion de Casablanca (ENCG), Morocco)
Mariyem Oukarfi (Faculty of Sciences and Technology of Mohammedia (FSTM), Hassan 2 University of Casablanca, Morocco)
Azedine Boumakaoui (Faculty of Sciences and Technology of Mohammedia (FSTM), Hassan 2 University of Casablanca, Morocco)
Karine Zeitouni (Laboratoire DAVID, Université de Versailles Saint-Quentin-en-Yvelines, France)
A DISTRIBUTED APPROACH FOR SHORTEST PATH ALGORITHM IN DYNAMIC MULTIMODAL TRANSPORTATION NETWORKS

16:30
Domokos Esztergár-Kiss (Budapest University of Technology and Economics, Hungary)
Zoltán Rózsa (Budapest University of Technology and Economics, Hungary)
Tamás Tettamanti (Budapest University of Technology and Economics, Hungary)
COMPARATIVE ANALYSIS OF TEST CASES OF THE ACTIVITY CHAIN OPTIMIZATION METHOD

17:00
Frederic Rudolph (Wuppertal Institut, Germany)
Daniel Höcher (Imperial College London, UK)
Tamás Mátrai (Budapest University of Technology and Economics, Hungary)
CONGESTION FROM A MULTIMODAL USER PERSPECTIVE

17:30
Géza Katona (Budapest University of Technology and Economics, Hungary)
Balázs Lénárt (Budapest University of Technology and Economics, Hungary)
János Phd. Juhász (Budapest University of Technology and Economics, Hungary)
TRAVEL HABIT BASED MULTIMODAL ROUTE PLANNING

16:00-18:00 IMPACT ASSESSMENT AND EX-POST EVALUATION
CHAIR: FLORIAN HEINITZ (INSTITUTE VERKEHR UND RAUM, GERMANY)
LOCATION: GOBELIN ROOM

16:00
Adrian Serrano-Hernandez (Department of Statistics and OR, Public University of Navarre, Spain)
Pablo Alvarez (Department of Statistics and OR, Public University of Navarre, Spain)
Iosu Lerga (Department of Statistics and OR, Public University of Navarre, Spain)
Lorena Reyes-Rubiano (Department of Statistics and OR, Public University of Navarre, Spain)
Javier Faulin (Department of Statistics and OR, Public University of Navarre, Spain)
PRICING AND INTERNALIZING NOISE EXTERNALITIES IN ROAD FREIGHT TRANSPORTATION

16:30
Federico Cavallaro (IUAV University of Venice, Italy)
Olga Irranca Galati (IUAV University of Venice, Italy)
Silvio Nocera (IUAV University of Venice, Italy)
POLICY STRATEGIES FOR THE MITIGATION OF GHG EMISSIONS CAUSED BY THE MASS-TOURISM MOBILITY IN COASTAL AREAS

17:00
Pavlos Tafidis (University of Aveiro, Portugal)
Eloisa Macedo (University of Aveiro, Portugal)
Margarida C. Coelho (University of Aveiro, Portugal)
Michal C. Niculescu (ITS Romania, Romania)
Andreea Voicu (ITS Romania, Romania)
Cecilia Barbu (Bucharest Metropolitan Transport Authority, Romania)
Nicoleta Jianu (Bucharest Metropolitan Transport Authority, Romania)
Francisco J. M. Pocostales (Extremadura Energy Agency, Spain)
Célia Laranjeira (Municipality of Agueda, Portugal)
Jorge Bandeira (University of Aveiro, Portugal)
EXPLORING THE IMPACT OF ICT ON URBAN MOBILITY IN HETEROGENIC REGIONS

16:00-18:00 AUTONOMOUS VEHICLE SYSTEM APPLICATIONS
CHAIR: MARCO RINALDI (UNIVERSITY OF LUXEMBOURG, LUXEMBOURG)
LOCATION: ZENE ROOM

16:00
Zoltan Fazekas (MTA SZTAKI Institute for Computer Science and Control, Hungary)
Gabor Balazs (MTA SZTAKI Institute for Computer Science and Control, Hungary)
Laszlo Gerencser (MTA SZTAKI Institute for Computer Science and Control, Hungary)
Peter Gaspar (MTA SZTAKI Institute for Computer Science and Control, Hungary)
LOCATING ROADWORKS SITES VIA DETECTING CHANGE IN LATERAL POSITIONS OF TRAFFIC SIGNS MEASURED RELATIVE TO THE EGO-CAR

16:30
Tamás Bécsi (Budapest University of Technology and Economics, Hungary)
Szilárd Aradi (Budapest University of Technology and Economics, Hungary)
Árpád Fehér (Budapest University of Technology and Economics, Hungary)
György Gáldi (Budapest University of Technology and Economics, Hungary)
AUTONOMOUS VEHICLE FUNCTION EXPERIMENTS WITH LOW-COST ENVIRONMENT SENSORS

17:00
Giulio Erberto Cantarella (University of Salerno, Italy)
Angela Di Febbraro (University of Genova, Italy)
TRANSPORTATION SYSTEMS WITH AUTONOMOUS VEHICLES:A GENERAL MODELLING FRAMEWORK
17:30 Wei Zhang (KTH Royal Institute of Technology, Sweden)
Anders Karlström (KTH Royal Institute of Technology, Sweden)
Marcus Sundberg (KTH Royal Institute of Technology, Sweden)
**PLATOON COORDINATION WITH TIME WINDOWS: AN OPERATIONAL PERSPECTIVE**

**16:00-18:00 SESSION 4D: URBAN MOBILITY**

**CHAIR: ANDRZEJ SZARATA (CRACOW UNIVERSITY OF TECHNOLOGY, POLAND)**

**LOCATION: FORRÁS ROOM**

16:00 András Lakatos (Budapest University of Technology and Economics, Hungary)
Péter Mándoki (Budapest University of Technology and Economics, Hungary)
**QUALITY EVALUATION OF THE REGIONAL PUBLIC TRANSPORTATION BY BUS AND TRAIN IN HUNGARY**

16:30 Melinda Matyas (University College London, UK)
Maria Kamargianni (University College London, UK)
**MOBILITY AS A SERVICE PLANS: HOW MUCH DO WE PREFER FLEXIBILITY?**

17:00 Agostino Nuzzolo (Dept. of Enterprise Engineering - University of Rome Tor Vergata, Italy)
Antonio Comi (Dept. of Enterprise Engineering - University of Rome Tor Vergata, Italy)
**A NORMATIVE OPTIMAL STRATEGY IN INTELLIGENT TRANSIT NETWORKS**

17:30 Ghazal Zakeri (NTNU, Norway)
Nils Olsson (NTNU, Norway)
**INVESTIGATION OF DELAYS AND PUNCTUALITY. THE CASE OF OSLO AREA**

**16:00-18:00 ADVANCED MODELLING APPROACHES IN LOGISTICS**

**CHAIR: LÓRÁNT TAVASSZY (TU DELFT, NETHERLANDS)**

**LOCATION: KÁVÉ ROOM**

16:00 Elżbieta Macioszek (Silesian University of Technology, Poland)
Grzegorz Sierpiński (Silesian University of Technology, Poland)
Marcin Staniek (Silesian University of Technology, Poland)
**ANALYSIS OF TRENDS IN DEVELOPMENT OF FREIGHT TRANSPORT LOGISTICS USING THE EXAMPLE OF SILESIAN PROVINCE (POLAND) – A CASE STUDY**

16:30 Michela Le Pira (Roma Tre University, Italy)
Edoardo Marcucci (Roma Tre University and Molde University College, Italy)
Valerio Gatta (Roma Tre University, Italy)
**ROLE-PLAYING GAMES AS A MEAN TO VALIDATE AGENT-BASED MODELS: AN APPLICATION TO STAKEHOLDER-DRIVEN URBAN FREIGHT TRANSPORT POLICY-MAKING**

17:00 Zlata Almetova (South Ural State University (national research university), Russia)
Vladimir Shepelev (Federal State Autonomous Educational Institution of Higher Education “South Ural State University (national research university)”, Russia)
Sergey Shepelev (Chelyabinsk State Agroengineering Academy, Russia)
**OPTIMIZATION OF VOLUMES OF CARGO DELIVERIES IN TERMINAL COMPLEXES**

17:30 Vitalii Naumov (Cracow University of Technology, Poland)
**ESTIMATING THE VEHICLES’ NUMBER FOR SERVICING A FLOW OF REQUESTS ON GOODS DELIVERY**

19:00-22:00 CONFERENCE DINNER
CONFERENCE PROGRAM

TUESDAY, SEPTEMBER 5TH

09:00-10:00: PLENARY SESSION
LOCATION: Tea room

09:00

Jonas Eliasson (City of Stockholm Transportation Department, Sweden)
ACHIEVING SUPPORT FOR EFFICIENT SOLUTIONS? A FUNDAMENTAL TRANSPORT POLICY DILEMMA

10:00-10:30 COFFEE BREAK

10:00-12:30 SIMULATION AND OPTIMIZATION OF TRANSPORTATION SYSTEMS
CHAIR: FRANCESCO VITI (UNIVERSITY OF LUXEMBOURG, LUXEMBOURG)
LOCATION: TEA ROOM

10:30

Mario Marinelli (Technical University of Bari, Italy)
Gianvito Palmisano (Technical University of Bari, Italy)
Vittorio Astarita (Technical University of Calabria, Italy)
Michele Ottomanelli (Technical University of Bari, Italy)
Mauro Dell’Orco (Technical University of Bari, Italy)
A FUZZY SET-BASED MODEL TO IDENTIFY THE CAR POSITION IN A ROAD LANE AT INTERSECTIONS BY SMARTPHONE GPS DATA

11:00

Mirko Barthauer (Technische Universität Braunschweig, Germany)
Bernhard Friedrich (Technische Universität Braunschweig, Germany)
CONNECTING MICROSCOPIC TRAFFIC SIMULATION AND EXTERNAL SIGNAL CONTROL

11:30

Malte Aschermann (Clausthal University of Technology, Institute of Informatics, Germany)
Bernhard Friedrich (Institute of Transportation and Urban Engineering, Germany)
Jörg P. Müller (TU Clausthal, Germany)
TOWARDS FAIR AND EFFICIENT TRAFFIC FLOW COORDINATION MECHANISMS FOR 2+1 ROADWAYS

12:00

Behnam Bahmankhah (Universidade de Aveiro, Portugal)
Margarida Isabel Cabrita Marques Coelho (Universidade de Aveiro, Portugal)
MULTI-OBJECTIVE OPTIMIZATION FOR SHORT DISTANCE TRIPS IN AN URBAN AREA: CHOOSING BETWEEN MOTOR VEHICLE OR CYCLING MOBILITY FOR A SAFE, SMOOTH AND LESS POLLUTED ROUTE

10:30

Paulo Fernandes (University of Aveiro, Portugal)
Anésio Sousa (University of Aveiro, Portugal)
Margarida Coelho (University of Aveiro, Portugal)
João Teixeira (University of Aveiro, Portugal)
Claudio Guarneraccia (University of Salerno, Italy)
MULTI-CRITERIA ASSESSMENT OF CROSSWALK LOCATION ON A CORRIDOR WITH ROUNDABOUTS: INCORPORATING A NOISE RELATED CRITERION

11:00

Paulo Fernandes (University of Aveiro, Portugal)
Margarida Coelho (University of Aveiro, Portugal)
PEDESTRIAN AND CYCLISTS IMPACTS ON VEHICULAR CAPACITY AND EMISSIONS AT DIFFERENT TURBO-ROUNDABOUTS LAYOUTS

11:30

Massimiliano Gastaldi (University of Padova, Italy)
Claudio Meneguzzo (University of Padova, Italy)
Rosa Arboretti Gianristofaro (University of Padova, Italy)
Gregorio Gecchele (University of Padova, Italy)
Luca Della Lucia (University of Padova, Italy)
Maria Vittoria Prati (Istituto Motori of National Research Council (CNR), Italy)
ON-Road MEASUREMENT OF CO2 VEHICLE EMISSIONS UNDER ALTERNATIVE FORMS OF INTERSECTION CONTROL

12:00

Andreas Braun (University of Stuttgart, Germany)
Wolfgang Rid (University of Applied Sciences Erfurt, Germany)
ENERGY CONSUMPTION OF AN ELECTRIC AND AN INTERNAL COMBUSTION PASSENGER CAR: A COMPARATIVE CASE STUDY FROM REAL WORLD DATA ON THE ERFRUT CIRCUIT IN GERMANY

10:30

Pasquale Carotenuto (National Research Council of Italy - Institute for Applied Mathematics „M. Picone”, Italy)
Stefano Giordani (Dip. Ingegneria dell’Impresa, University of Rome Tor Vergata, Italy)
Daniele Celani (Dip. Ingegneria dell’Impresa, University of Rome Tor Vergata, Italy)
PLANNING RETAIL DISTRIBUTION OF FUEL OILS

11:00

Philipp Hungerlaender (Alpen-Adria Universität Klagenfurt, Austria)
Andrea Rendl (Alpen-Adria Universität Klagenfurt, Austria)
Christian Truden (Alpen-Adria Universität Klagenfurt, Austria)
ON THE SLOT OPTIMIZATION PROBLEM IN ON-LINE VEHICLE ROUTING
CONFERENECE PROGRAM

11:30
Maria Giovanna Altieri (Technical University of Bari, Italy)
Mauro Dell’Orco (Technical University of Bari, Italy)
Mario Marinelli (Technical University of Bari, Italy)
Stefania Sinesi (Technical University of Bari, Italy)
EVIDENCE (DEMPSTER - SHAFER) THEORY-BASED EVALUATION OF DIFFERENT TRANSPORT MODES UNDER UNCERTAINTY: THEORETICAL BASIS AND FIRST FINDINGS

12:00
Matteo Ignaccolo (Dipartimento di Ingegneria Civile e Architettura (DICAR), University of Catania, Italy)
Giuseppe Inturri (University of Catania, Italy)
Mónica García-Melón (Polytechnic university of valencia, Spain)
Nadia Giuffrida (University of Catania, Italy)
Michela Le Pira (University of Catania, Italy)
Vincenza Torrisi (University of Catania, Italy)
COMBINING ANALYTIC HIERARCHY PROCESS (AHP) WITH ROLE-PLAYING GAMES FOR STAKEHOLDER ENGAGEMENT IN COMPLEX TRANSPORT DECISIONS

10:30-12:30 AUTOMATIC DATA COLLECTION METHODS
CHAIR: HENK VAN ZUYLEN (DELFT UNIVERSITY OF TECHNOLOGY, NETHERLANDS)
LOCATION: FORRÁS ROOM

10:30
Vivien Poto (Budapest University of Technology and Economics, Hungary)
Arpad Somogyi (Budapest University of Technology and Economics, Hungary)
Tamás Lovas (Budapest University of Technology and Economics, Hungary)
Arpad Barsi (Budapest University of Technology and Economics, Hungary)
LASER SCANNED POINT CLOUDS TO SUPPORT AUTONOMOUS VEHICLES

11:00
Zoltan Fazekas (MTA SZTAKI Institute for Computer Science and Control, Hungary)
Gabor Balazs (MTA SZTAKI Institute for Computer Science and Control, Hungary)
Laszlo Gerencser (MTA SZTAKI Institute for Computer Science and Control, Hungary)
Péter Gáspár (MTA SZTAKI Institute for Computer Science and Control, Hungary)
INFERRING THE ACTUAL URBAN ROAD ENVIRONMENT FROM TRAFFIC SIGN DATA USING A MINIMUM DESCRIPTION LENGTH APPROACH

11:30
Erik Jenelius (KTH Royal Institute of Technology, Sweden)
Ida Kristoffersson (Swedish National Road and Transport Research Institute (VTI), Sweden)
Magnus Fransson (Sweco Society AB, Sweden)
VALIDATION OF TRAFFIC SIMULATION MODELS BASED ON THE MACROSCOPIC FUNDAMENTAL DIAGRAM

12:00
María Eugenia López-Lambas (UPM, Spain)
Andrés Monzón (TRANSyT-UPM - Universidad Politecnica de Madrid, Spain)
Gabriel Pieren (TRANSyT-UPM - Universidad Politecnica de Madrid, Spain)
ANALYSIS OF USING ELECTRIC CAR FOR URBAN MOBILITY, PERCEIVED SATISFACTION AMONG UNIVERSITY USERS.

10:30-12:30 MANAGEMENT OF INTELLIGENT RAIL TRANSPORT SYSTEMS
CHAIR: JORGE PINHO DE SOUSA (FEUP - FACULTY OF ENGINEERING UNIVERSITY OF PORTO, PROTUGAL)
LOCATION: KÁVÉ ROOM

10:30
Jelena Aksentijevic (OpenTrack Railway Technology GmbH, Austria)
Andreas Schöbel (OpenTrack Railway Technology GmbH, Austria)
Johann Blieberger (Vienna University of Technology, Austria)
Stefan Mark (Austrian Institute of Technology, Austria)
OPTIMISATION OF RAIL TRAFFIC FLOW USING KRONECKER ALGEBRA DURING MAINTENANCE ON INFRASTRUCTURE

11:00
Angela Di Febraro (DIME - University of Genova, Italy)
Davide Giglio (DIME - University of Genova, Italy)
Nicola Sacco (DIME - University of Genova, Italy)
ON ANALYZING THE VULNERABILITIES OF A RAILWAY NETWORK WITH PETRI NETS

11:30
Nuannuan Leng (ETH Zurich, Switzerland)
Ulrich Weidmann (ETH Zurich, Switzerland)
DISCUSSIONS OF THE RESCHEDULE PROCESS OF PASSENGERS, TRAIN OPERATORS AND INFRASTRUCTURE MANAGERS IN RAILWAY DISRUPTIONS

12:00
Sara Gestrelius (SICS Swedish ICT, Sweden)
Martin Aronsson (SICS Swedish ICT, Sweden)
Anders Peterson (Linköpings Universitet, Sweden)
A MILP-BASED HEURISTIC FOR A COMMERCIAL TRAIN TIMETABLING PROBLEM

12:30-13:30 LUNCH BREAK

13:30-15:30 SIMULATION AND OPTIMIZATION OF TRANSPORTATION SYSTEMS
CHAIR: YUVAL HADAS (BAR ILAN UNIVERSITY, ISRAEL)
LOCATION: TEA ROOM

13:30
Zsusanna Bede (Budapest University of Technology and Economics, Hungary)
Balázs Németh (Institute for Computer Science and Control, Hungarian Academy of Sciences, Hungary)
Péter Gáspár (Institute for Computer Science and Control, Hungarian Academy of Sciences, Hungary)
MODELING AND SIMULATION BASED ANALYSIS OF MULTI-CLASS TRAFFIC WITH LOOK-AHEAD CONTROLLED VEHICLES
14:00  Ariane Scheffer (University of Luxembourg, Luxembourg)
Guido Cantelmo (University of Luxembourg, Luxembourg)
Francesco Viti (University of Luxembourg, Luxembourg)
**GENERATING MACROSCOPIC, PURPOSE-DEPENDENT PRODUCTION FACTORS THROUGH MONTE CARLO SAMPLING TECHNIQUES**

14:30  Mohamed Abdel-Aty (University of Central Florida, USA)
Ling Wang (University of Central Florida, USA)
**IMPLEMENTATION OF VARIABLE SPEED LIMITS TO IMPROVE SAFETY OF A CONGESTED EXPRESSWAY WEAVING SEGMENT IN MICROSIMULATION**

15:00  Mariano Risso (PLADEMA-CONICET, Argentina)
Neilh Bhouri (IFSTTAR, France)
Aldo Rubiales (PLADEMA-CICPBA, Argentina)
Pablo Andrés Lotito (PLADEMA-CONICET, Argentina)
**A NONLINEAR ALGORITHM FOR TRAFFIC ESTIMATION WITH STATE CONSTRAINTS**

**13:30-15:30 ENERGY CONSUMPTION AND EMISSION MODELING**
CHAIR: MARGARIDA COELHO (UNIVERSITY OF AVEIRO, PORTUGAL)
LOCATION: GOBELIN ROOM

13:30  Fangfang Zheng (Southwest Jiaotong University, China)
Jie Li (Hunan University and Delft University of Technology, China)
**DRIVER SPECIFIC EMISSIONS AND FUEL CONSUMPTION**

14:00  Giovanni Gualtieri (CNR-IBIMET, Italy)
Francesca Camilli (CNR-IBIMET, Italy)
Alice Cavaliere (DINFO, University of Firenze, Italy)
Tiziana De Filippis (CNR-IBIMET, Italy)
Filippo Di Gennaro (CNR-IBIMET, Italy)
Sara Di Lonardo (CNR-IBIMET, Italy)
**AN INTEGRATED LOW-COST ROAD TRAFFIC AND AIR POLLUTION MONITORING PLATFORM TO ASSESS VEHICLES’ AIR QUALITY IMPACT IN URBAN AREAS**

14:30  Szilárd Aradi (Budapest University of Technology and Economics, Hungary)
Tamás Bécsi (Budapest University of Technology and Economics, Hungary)
**ENERGY SAVING POSSIBILITIES AT THE HUNGARIAN STATE RAILWAYS**

15:00  Anuradha Jain (Partner for Projects and Studies, Switzerland)
Dirk Bruckmann (Rhine-Waal University of Applied Sciences, Germany)
**A SUSTAINABLE APPROACH FOR THE PRIVATE WAGON LEASING COMPANIES IN EUROPE TO IMPROVE THE COMPETITIVENESS OF SINGLE WAGONLOAD TRANSPORT**

**13:30-15:30 HEURISTIC METHODS IN OPTIMIZATION**
CHAIR: Pasquale Carotenuto
(National Research Council of Italy - Institute for Applied Mathematics „M. Picone”, Italy)
LOCATION: ZENE ROOM

13:30  Pasquale Carotenuto (National Research Council of Italy - Institute for Applied Mathematics „M. Picone”, Italy)
Fabio Martis (National Research Council of Italy - Institute for Applied Mathematics „M. Picone”, Italy)
**A DOUBLE DYNAMIC FAST ALGORITHM TO SOLVE MULTI VEHICLE DIAL A RIDE PROBLEM**

14:00  Grzegorz Sierpiński (Silesian University of Technology, Faculty of Transport, Poland)
Marcin Stanieck (Silesian University of Technology, Faculty of Transport, Poland)
**HEURISTIC APPROACH IN A MULTIMODAL TRAVEL PLANNER TO SUPPORT LOCAL AUTHORITIES IN URBAN TRAFFIC MANAGEMENT**

14:30  Grzegorz Filcek (Wroclaw University of Science and Technology, Poland)
Maciej Hojda (Wroclaw University of Science and Technology, Poland)
Jacek Zak (Poznan University of Technology, Poland)
**A HEURISTIC ALGORITHM FOR SOLVING A MULTIPLE CRITERIA CARPOOLING OPTIMIZATION (MCCO) PROBLEM**

15:00  Marco Rinaldi (University of Luxembourg, Luxembourg)
Francesco Viti (University of Luxembourg, Luxembourg)
Chris Tampère (KU Leuven, Belgium)
**A GLOBAL OPTIMIZATION HEURISTIC FOR THE DECOMPOSED STATIC ANTICIPATORY NETWORK TRAFFIC CONTROL PROBLEM**

**13:30-15:30 AUTOMATIC DATA COLLECTION METHODS**
CHAIR: MARÍA EUGENIA LÓPEZ-LAMBAS (UPM, SPAIN)
LOCATION: FORRÁS ROOM

13:30  Gourab Sil (IIT Bombay, India)
Avijit Maji (IIT Bombay, India)
**VIDEO BASED DATA COLLECTION PROCESS FOR GEOMETRIC DESIGN CONSISTENCY EVALUATION OF FOUR-LANE MEDIAN DIVIDED HORIZONTAL CURVES**
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<tr>
<th>Time</th>
<th>Session</th>
<th>Chairs and Presenters</th>
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<tr>
<td>13:30</td>
<td>MANAGEMENT OF INTELLIGENT RAIL TRANSPORT SYSTEMS</td>
<td>Miklós Gábor Bánfi (Budapest University of Technology and Economics, Hungary)</td>
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<td>13:30</td>
<td>Computation of Passenger Walking Speed Distribution Models in Mass Transit Stations</td>
<td>Fabien Leurent (Ecole des Ponts ParisTech, France)</td>
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<td>Location: KÁVÉ ROOM</td>
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<td>14:00</td>
<td>Dynamic Pricing of Railway Timetables</td>
<td>Martin Aronsson (SICS Swedish ICT, Sweden)</td>
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<td>Jan Lundgren (Linköping University, Sweden)</td>
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<td>14:30</td>
<td>Traffic Monitoring to Crowd Management in Railway Stations</td>
<td>Bachar Kabalan (LVMT-ENPC, France)</td>
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<td>Zoi Christoforou (LVMT-ENPC, France)</td>
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<td>Marin Dubroca-Voisin (SNCF-LVMT-ENPC, France)</td>
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<td>15:00</td>
<td>On Passenger Repositioning Along Station Platform During Train Waiting</td>
<td>Xiaoyan Xie (Ecole des Ponts ParisTech, France)</td>
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<td>15:30</td>
<td>13:30-15:30 COFFEE BREAK</td>
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<td>16:00</td>
<td>Simulation and Optimization of Transportation Systems</td>
<td>Mauro Dell’Orco (Technical University of Bari, Italy)</td>
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<td>16:00</td>
<td>Dynamic Multi-Agent Architecture for Mobility Simulation in a Train Station</td>
<td>Bachar Kabalan (Ecole des Ponts ParisTech, France)</td>
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<td>Feirouz Ksontini (SystemX, France)</td>
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<td>16:30</td>
<td>Dynamic Multi-Agent Architecture for Mobility Simulation in a Train Station</td>
<td>Xiao Liang (Delft University of Technology, Netherlands)</td>
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<td>Bart van Arem (Delft University of Technology, Netherlands)</td>
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<td>An Optimization Model for Vehicle Routing of Automated Taxi Trips with Dynamic Travel Times</td>
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<td>17:00</td>
<td>Conceptual Design for a National Transport Model with Cross-Sectoral Interdependencies</td>
<td>Milan Lovric (University of Southampton, UK)</td>
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<td>Simon Blainey (University of Southampton, UK)</td>
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<td>John Preston (University of Southampton, UK)</td>
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<td>17:30</td>
<td>Stochastic Multi-Objective Evacuation Model Under Managed and Unmanaged Policies</td>
<td>Yuval Hadas (Bar Ilan University, Israel)</td>
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<td>Oren Nahum (Bar-Ilan University, Israel)</td>
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<td>Riccardo Rossi (University of Padova, Italy)</td>
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<td>Massimiliano Gastaldi (University of Padova, Italy)</td>
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**8A** 16:00-18:00

**8B** 16:00-18:00
16:30 Bálint Csonka (Budapest University of Technology and Economics, Hungary)
Csaba Csiszár (Budapest University of Technology and Economics, Hungary)
DETERMINATION OF CHARGING INFRASTRUCTURE LOCATIONS FOR ELECTRIC VEHICLES

17:00 Katarzyna Nosal (Cracow University of Technology, Poland)
Andrzej Szarata (Cracow University of Technology, Poland)
Urszula Duda-Wiertel (Cracow University of Technology, Poland)
Łukasz Franek (City of Cracow, Poland)
THE IMPACT OF THE CAR RESTRICTIONS IMPLEMENTED IN THE CITY CENTER ON THE PUBLIC SPACE QUALITY

17:30 Federico Malucelli (Politecnico di Milano, Italy)
Maddalena Nonato (University of Ferrara, Italy)
Emanuele Tresoldi (Politecnico di Milano, Italy)
OPTIMIZATION BASED PLANNING OF PEDIBUS LINES: AN ARC BASED APPROACH

16:00-18:00 AUTONOMOUS VEHICLE SYSTEM APPLICATIONS
CHAIR: TAMÁS BÉCSI
(BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, HUNGARY)
LOCATION: ZENE ROOM

16:00 Ferenc Hegedüs (Robert Bosch Hungary, Hungary)
Tamás Bécsi (Budapest University of Technology and Economics, Hungary)
Szilárd Aradi (Budapest University of Technology and Economics, Hungary)
DYNAMICALLY FEASIBLE TRAJECTORY PLANNING FOR ROAD VEHICLES IN TERMS OF SENSITIVITY AND ROBUSTNESS

16:30 Sven-Eric Molzahn (Daimler AG, Germany)
Hubert Rehborn (Daimler AG, Germany)
Micha Koller (Daimler AG, Germany)
JAMTAIL WARNINGS BASED ON VEHICLE PROBE DATA

17:00 Cesare Bartolini (Interdisciplinary Centre for Security, Reliability and Trust, University of Luxembourg, Luxembourg)
Tamás Tettamanti (Budapest University of Technology and Economics, Hungary)
István Varga (Budapest University of Technology and Economics, Hungary)
CRITICAL FEATURES OF AUTONOMOUS ROAD TRANSPORT FROM THE PERSPECTIVE OF TECHNOLOGICAL REGULATION AND LAW

17:30 Azamat Zarkeshev (Budapest University of Technology and Economics, Hungary)
Csaba Csiszár (Budapest University of Technology and Economics, Hungary)
DEMAND-CAPACITY COORDINATION METHOD IN AUTONOMOUS PUBLIC TRANSPORTATION

16:00-18:00 LAND USE AND TRANSPORT INTERACTIONS
CHAIR: JOAO DE ABREU E SILVA (INSTITUTO SUPERIOR TÉCNICO, PORTUGAL)
LOCATION: FORRÁS ROOM

16:00 Nadia Giuffrida (University of Catania, Italy)
Matteo Ignaccolo (Dipartimento di Ingegneria Civile e Architettura (DICAR), University of Catania, Italy, Italy)
Giuseppe Inturri (University of Catania, Italy)
Yodan Rofè (Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev, Israel)
Giovanni Calabrò (University of Catania, Italy)
INVESTIGATING THE CORRELATION BETWEEN TRANSPORTATION SOCIAL NEED AND ACCESSIBILITY: THE CASE OF CATANIA

16:30 Biao Yin (LVMT- Ecole des Ponts ParisTech, IFSTTAR, UPEM, France)
Liu Liu (LVMT- Ecole des Ponts ParisTech, IFSTTAR, UPEM, France)
Nicolas Coulombel (LVMT- Ecole des Ponts ParisTech, IFSTTAR, UPEM, France)
Vincent Vigué (CIRED- Centre International de Recherche sur l’Environnement et le Développement, France)
EVALUATION OF RIDESHARING IMPACTS USING AN INTEGRATED TRANSPORT LAND-USE MODEL: A CASE STUDY FOR THE PARIS REGION

17:00 Dávid Földes (Budapest University of Technology and Economics, Hungary)
Csaba Csiszár (Budapest University of Technology and Economics, Hungary)
ASSESSMENT METHODS FOR INDIVIDUAL VALUE OF LOCATION

17:30 João de Abreu E Silva (Instituto Superior Técnico, Portugal)
Patricia Melo (The James Hutton Institute, UK)
THE EFFECTS OF HOME BASED TELEWORK ON HOUSEHOLDS’ TOTAL TRAVEL. A PATH ANALYSIS APPROACH OF BRITISH HOUSEHOLDS

16:00-18:00 TRAVEL TIME RELIABILITY AND WIDER ECONOMIC BENEFITS
CHAIR: TAMÁS MÁTRAI
(BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, HUNGARY)
LOCATION: KÁVÉ ROOM

16:00 Jaime Soza-Parra (Pontificia Universidad Católica de Chile, Chile)
Sebastián Raveau (Pontificia Universidad Católica de Chile, Chile)
Juan Carlos Muñoz (Pontificia Universidad Católica de Chile, Chile)
CHARACTERIZING THE DIFFERENCES ON PUBLIC TRANSPORT TRAVEL TIME RELIABILITY BETWEEN TRAVELLERS AND OPERATORS

16:30 Carl-William Palmqvist (Lund University, Sweden)
Lena Hiselius (Lund University, Sweden)
Nils Olsson (Norwegian University of Science and Technology, Norway)
PUNCTUALITY PROBLEMS FROM THE PERSPECTIVE OF TIMETABLE PLANNERS
17:00  Vincenza Torrisi (University of Catania, Italy)
Matteo Ignaccolo (Dipartimento di Ingegneria Civile e Architettura (DICAR), University of Catania, Italy, Italy)
Giuseppe Inturri (University of Catania, Italy)
ESTIMATING TRAVEL TIME RELIABILITY IN URBAN AREAS THROUGH A DYNAMIC SIMULATION MODEL

17:30  Abderrahman Ait Ali (KTH Royal Institute of Technology, Sweden)
Jonas Eliasson (KTH Royal Institute of Technology, Sweden)
Jennifer Ward (KTH Royal Institute of Technology, Sweden)
MEASURING THE SOCIO-ECONOMIC BENEFITS OF TRAIN TIMETABLES: APPLICATION TO STOCKHOLM’S COMMUTER TRAIN SERVICE

20:00-23:00 GALA DINNER
11:00  
**Daniel Hörcher** (Imperial College London, UK)  
Daniel Graham (Imperial College London, UK)  
**THE ECONOMIC ACCOUNT OF TRAVEL PASSES IN PUBLIC TRANSPORT**

11:30  
**Juste Raimbault** (UMR CNRS 8504 Géographie-cités, France)  
Antonin Bergeaud (Department of Economics, London School of Economics, UK)  
**THE COST OF TRANSPORTATION : SPATIAL ANALYSIS OF FUEL PRICES IN THE US**

12:00  
Pierre Graffiteaux (World Bank, Australia)  
**DAKAR TOLL ROAD: MOVING PEOPLE TO HELP PEOPLE MOVE**

10:30-12:30  
**CONTROL AND MANAGEMENT OF TRANSPORTATION SYSTEMS**  
CHAIR: TAMÁS TETTAMANTI  
(BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, HUNGARY)  
LOCATION: ZENE ROOM

10:30  
Livia Mannini (Roma Tre University, Department of Engineering, Italy)  
Ernesto Cipriani (Roma Tre University, Department of Engineering, Italy)  
**Umberto Crisalli** (Tor Vergata University of Rome, Department of Enterprise Engineering, Italy)  
Andrea Gemma (Roma Tre University, Department of Engineering, Italy)  
**ON-STREET PARKING SEARCH TIME ESTIMATION USING FCD DATA**

11:00  
Tamás Luspay (Institute for Computer Science and Control, Hungary)  
**Alfréd Cskiós** (Institute for Computer Science and Control, Hungary)  
Tamás Péni (Institute for Computer Science and Control, Hungary)  
István Varga (Budapest University of Technology and Economics, Hungary)  
Balázs Kulcsár (Department of Signals and Systems, Chalmers University of Technology, Sweden)  
**RAMP METERING FOR FLOW MAXIMISATION AND EMISSION REDUCTION – A SET-BASED MULTI-OBJECTIVE DESIGN APPROACH**

11:30  
Tamás Tettamanti (Budapest University of Technology and Economics, Hungary)  
Arash Mohammadi (Institute for Intelligent Systems Research and Innovation, Deakin University, Australia)  
Houshyar Asadi (Institute for Intelligent Systems Research and Innovation, Deakin University, Australia)  
István Varga (Budapest University of Technology and Economics, Hungary)  
**A TWO-LEVEL URBAN TRAFFIC CONTROL FOR AUTONOMOUS VEHICLES TO IMPROVE NETWORK-WIDE PERFORMANCE**

12:00  
Nikolaos Bekiaris-Liberis (Technical University of Crete, Greece)  
Claudio Roncoli (Aalto University, Finland)  
Markos Papageorgiou (Technical University of Crete, Greece)  
**TRAFFIC STATE ESTIMATION PER LANE IN HIGHWAYS WITH CONNECTED VEHICLES**

10:30-12:30  
**HUMAN FACTORS AND TRAVEL BEHAVIOUR**  
CHAIR: GABRIELLA MAZZULLA (UNIVERSITY OF CALABRIA, ITALY)  
LOCATION: FORRÁS ROOM

10:30  
**Michael Olitsky** (Gdalia Olitsky Engineering LTD, Israel)  
Yoav Lerman (Tecnion - Israel Institute of Technology, Israel)  
Erel Avineri (Afeka Center for Infrastructure, Transportation and Logistics, Israel)  
**ANALYSIS OF STATED PREFERENCES FOR ACCESSIBLE SERVICES AND COMMERCE IN A WALKABLE DISTANCE FROM HOME**

11:00  
**Marta Faria** (Instituto Superior Técnico, Portugal)  
Patricia Baptista (Instituto Superior Técnico, Portugal)  
Tiago Farias (Instituto Superior Técnico, Portugal)  
**IDENTIFYING DRIVING BEHAVIOUR PATTERNS AND ITS IMPACTS IN ENERGY EFFICIENCY**

11:30  
**Bharat Kumar Pathivada** (Indian Institute of Technology (IIT) Bombay, India)  
Vedagiri Perumal (Indian Institute of Technology (IIT) Bombay, India)  
**MODELING DRIVER BEHAVIOUR IN DILEMMA ZONE UNDER MIXED TRAFFIC CONDITIONS**

12:00  
Laura Eboli (University of Calabria, Italy)  
Gabriella Mazzulla (University of Calabria, Italy)  
**Giuseppe Pungillo** (University of Calabria, Italy)  
**HOW DRIVERS’ CHARACTERISTICS CAN AFFECT DRIVING STYLE**

10:30-12:30  
**TRANSPORTATION PLANNING AND TRAFFIC ENGINEERING**  
CHAIR: PAOLO DELLE SITE (UNIVERSITY NICCOLÒ CUSANO, ITALY)  
LOCATION: KÁVÉ ROOM

10:30  
**Yasar Vitosoglu** (Dumlupinar University, Faculty of Engineering, Department of Civil Engineering, Turkey)  
H. Canan Gungor (Necmettin Erbakan University, Seydisehir Vocational School, Department of Civil Defense and Firefighting, Turkey)  
Polat Yaliniz (Dumlupinar University, Faculty of Engineering, Department of Civil Engineering, Turkey)  
**OBTAINING THE INTERCITY BUS TRAVEL MATRIX IN TURKEY AND ANALYSING IT IN GIS ENVIRONMENT**

11:00  
**Antonio Mauttone** (Universidad de la República, Uruguay)  
Gonzalo Mercadante (Universidad de la República, Uruguay)  
Maria José Rabaza (Universidad de la República, Uruguay)  
Fernanda Toledo (Universidad de la República, Uruguay)  
**BICYCLE NETWORK DESIGN: MODEL AND SOLUTION ALGORITHM**
CONFERENCE PROGRAM

11:30

Federico Pascucci (Technische Universität Braunschweig, Germany)
Sebastian Vogt (Technische Universität Braunschweig, Germany)
Bernhard Friedrich (Technische Universität Braunschweig, Germany)

MEASURING THE QUALITY OF TRAFFIC FLOW ON URBAN STREETS WITH HIGH PEDESTRIAN CROSSING DEMAND

12:00

Sonu Mathew (Sardar Vallabhbhai National Institute of Technology, India)
Ashish Dharmamiya (Sardar Vallabhbhai National Institute of Technology, India)
Shrinivas Arkatkar (Sardar Vallabhbhai National Institute of Technology, India)
Gaurang Joshi (Sardar Vallabhbhai National Institute of Technology, India)

ROUNDABOUT CAPACITY IN HETEROGENEOUS TRAFFIC CONDITION: MODIFICATION OF HCM EQUATION AND CALIBRATION

12:30-13:30 LUNCH BREAK

13:30-15:30 DYNAMIC NETWORK MODELING AND OPTIMIZATION

CHAIR: JÁNOS TÓTH

(BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, HUNGARY)

LOCATION: TEA ROOM

13:30

Márton Tamás Horváth (Budapest University of Technology and Economics, Hungary)
Tamás Mátrai (Budapest University of Technology and Economics, Hungary)
János Tóth (Budapest University of Technology and Economics, Hungary)

ROUTE PLANNING METHODOLOGY WITH FOUR-STEP MODEL AND DYNAMIC ASSIGNMENTS

14:00

Paolo Delle Site (University Niccolò Cusano, Italy)

FIXED POINT STATES OF DAY-TO-DAY ASSIGNMENT PROCESSES WITH STATE-DEPENDENT ROUTE CHOICE

14:30

Bojan Kostic (Sapienza University of Rome, Italy)
Lorenzo Meschini (PTV SISTeMA, Italy)
Guido Gentile (Sapienza University of Rome, Italy)

CALIBRATION OF THE DEMAND STRUCTURE FOR DYNAMIC TRAFFIC ASSIGNMENT USING FLOW AND SPEED DATA: EXPLOITING THE ADVANTAGE OF DISTRIBUTED COMPUTING IN DERIVATIVE-FREE OPTIMIZATION ALGORITHMS

15:00

Vincenza Torrisi (University of Catania, Italy)
Matteo Ignaccolo (Dipartimento di Ingegneria Civile e Architettura (DICAR), University of Catania, Italy)
Giuseppe Inturri (University of Catania, Italy)

ANALYSIS OF ROAD URBAN TRANSPORT NETWORK CAPACITY THROUGH A DYNAMIC ASSIGNMENT MODEL

13:30-15:30 BIG DATA IN TRANSPORTATION

CHAIR: UMBERTO CRISALLI

(DEPARTMENT OF ENTERPRISE ENGINEERING, TOR VERGATA UNIVERSITY OF ROME, ITALY)

LOCATION: GOBELIN ROOM

13:30

Mehmet Yıldırımoglu (University of Queensland, Australia)
Jiwon Kim (University of Queensland, Australia)

IDENTIFICATION OF COMMUNITIES IN URBAN MOBILITY NETWORKS USING MULTI-LAYER GRAPHS OF NETWORK TRAFFIC

14:00

Viktor Nagy (Széchenyi István University, Hungary)
Balázs Horváth (Széchenyi István University, Hungary)
Richárd Horváth (Széchenyi István University, Hungary)

ZONE ESTIMATION IN PUBLIC TRANSPORT PLANNING WITH DATA MINING

14:30

Menno Yap (Delft University of Technology, Netherlands)
Oded Cats (Delft University of Technology, Netherlands)
Niels van Oort (Delft University of Technology, Netherlands)
Serge Hoogendoorn (Delft University of Technology, Netherlands)

DATA-DRIVEN TRANSFER INFERENCE FOR PUBLIC TRANSPORT JOURNEYS DURING DISRUPTIONS

15:00

Csaba Kelemen (Jacobs UK, UK)
Pablo Vilarino (Jacobs UK, UK)
Georgios Christou (Jacobs UK, UK)

ADVANCED DEMAND DATA COLLECTION TECHNOLOGIES FOR MULTI MODAL STRATEGIC MODELLING

13:30-15:30 VEHICLE ROUTING AND ROUTE PLANNING

CHAIR: DOMOKOS ESZTERGÁR-KISS

(BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, HUNGARY)

LOCATION: ZENE ROOM

13:30

Kristof Bárczi (Dept. of Operations Research, Eötvös University of Sciences, Budapest, Hungary)

ALPÁR JÚTTNER (DEPT. OF OPERATIONS RESEARCH, EÖTVÖS UNIVERSITY OF SCIENCES, BUDAPEST, HUNGARY)

Alpár Juttner (Dept. of Operations Research, Eötvös University of Sciences, Budapest, Hungary)
Marco Laumanns (IBM Research, Rüschlikon, Switzerland, Switzerland)
Jácint Szabó (IBM Research, Rüschlikon, Switzerland, Switzerland)

STOCHASTIC ROUTE PLANNING IN PUBLIC TRANSPORT

14:00

Francisco Garrido-Valenzuela (Pontificia Universidad Católica de Chile, Chile)
Juan C. Herrera (Pontificia Universidad Católica de Chile, Chile)
Sebastián Raveau (Pontificia Universidad Católica de Chile, Chile)

BAYESIAN ROUTE CHOICE INFERENCE USING BLUETOOTH TECHNOLOGY
**CONFERENCE PROGRAM**

**11D** 13:30-15:30 ROAD SAFETY AND HUMAN FACTORS
CHAIR: ROBERTA DI PACE
(DIPARTIMENTO DI INGEGNERIA CIVILE, UNIVERSITÀ DEGLI STUDI DI SALERNO, ITALY)
LOCATION: FORRÁS ROOM

- **13:30**
  - Mariana Vilaça (University of Aveiro, Portugal)
  - Margarida Coelho (University of Aveiro, Portugal)
  - STATISTICAL ANALYSIS OF THE OCCURRENCE AND SEVERITY OF CRASHES INVOLVING VULNERABLE ROAD USERS: PORTUGAL EXPERIENCE

- **14:00**
  - Francesca Russo (Department of Civil, Construction and Environmental Engineering (DICEA) University Federico II of Naples, Italy)
  - Roberto Di Pace (Dipartimento di Ingegneria Civile, Università degli Studi di Salerno, Italy)
  - Gianluca Dell'Acqua (Department of Civil, Construction and Environmental Engineering (DICEA) University Federico II of Naples, Italy)
  - Stefano de Luca (University of Salerno, Italy)
  - ESTIMATING AN INJURY CRASH RATE PREDICTION MODEL BASED ON SEVERITY LEVELS EVALUATION: THE CASE STUDY OF SINGLE-VEHICLE RUN-OFF-ROAD CRASHES IN RURAL CONTEXT

- **14:30**
  - Miroslav Vasilev (NTNU, Norway)
  - Kelly Pitera (NTNU, Norway)
  - Thomas Jonsson (NTNU, Norway)
  - EVALUATION OF BICYCLE SHARROWS WITHIN THE NORWEGIAN CONTEXT

- **15:00**
  - Maen Ghadi (Budapest University of Technology and Economics, Hungary)
  - Arpad Torok (Budapest University of Technology and Economics, Hungary)
  - COMPARING DIFFERENT BLACK SPOT IDENTIFYING METHODS

**11E** 13:30-15:30 AIR TRANSPORT OPERATIONS
CHAIR: OLJA ÇOKORILO
(UNIVERSITY OF BELGRADE, FACULTY OF TRANSPORT AND TRAFFIC ENGINEERING, SERBIA)
LOCATION: KÁVÉ ROOM

- **13:30**
  - Santiago Garcia (Rey Juan Carlos University, Spain)
  - Luis Cadarso (Rey Juan Carlos University, Spain)
  - AIRLINE RE-FLEETING MANAGING REVENUES AND MAINTENANCE OPERATIONS

- **14:00**
  - Leandro O. Silva (IME, Brazil)
  - Renata Albergaria M. Bandeira (IME, Brazil)
  - Vania Campos (Instituto Militar de Engenharia, Brazil)
  - THE USE OF UAV AND GEOGRAPHIC INFORMATION SYSTEMS FOR FACILITY LOCATION IN A POS-DISASTER SCENARIO

- **14:30**
  - Caterina Malandri (University of Bologna - DICAM, Italy)
  - Luca Mantecchini (University of Bologna - DICAM, Italy)
  - Maria Nadia Postorino (Mediterranea University of Reggio Calabria, Italy)
  - AIRPORT GROUND ACCESS RELIABILITY: RESILIENCE OF TRANSIT NETWORKS

- **15:00**
  - Erik Grunewald (DLR German Aerospace Center, Germany)
  - Franz Knabe (DLR German Aerospace Center, Germany)
  - Florian Rudolph (DLR German Aerospace Center, Germany)
  - Michael Schultz (DLR German Aerospace Center, Germany)
  - PRIORITY RULES AS A CONCEPT FOR THE USAGE OF SCARCE AIRPORT CAPACITY

**12A** 16:00-17:30 LAND USE AND TRANSPORT INTERACTIONS
CHAIR: MARCOS SCHLICKMANN (FEUP, PORTUGAL)
LOCATION: TEA ROOM

- **16:00**
  - Badredine Boumakoul (Aix-Marseille University, France)
  - Lamia Karim (Hassan I University, Morocco)
  - Zineb Besri (Abdelmalek Essaâdi University, Morocco)
  - Azedine Boumakoul (Université Hassan II Mohammedia, Morocco)
  - Ahmed Lbath (Computer Science Department, Laboratoire LIG, University Joseph Fourier, Grenoble, France, France)
  - COMBINATORIAL CONNECTIVITY’S AND SPECTRAL GRAPH ANALYTICS FOR URBAN PUBLIC TRANSPORTATION SYSTEM

- **16:30**
  - Marcos Schlückmann (FEUP, Portugal)
  - Luis Miguel Martinez (Instituto Superior Tecnico, Portugal)
  - Jorge Pinho De Sousa (INESC Porto / FEUP, Portugal)
  - A TOOL FOR SUPPORTING THE DESIGN OF BRT AND LRT SERVICES
CONFERENCE PROGRAM

17:00
R Shanmathi Rekha (National Institute of Technology, India)
Shayesta Wajid (National Institute of Technology, India)
Nisha Radhakrishnan (National Institute of Technology, India)
Samson Mathew (National Institute of Technology, India)
SPATIAL ACCESSIBILITY ANALYSIS AND LOCATION-ALLOCATION OF HEALTHCARE SERVICE USING GEOSPATIAL TECHNIQUES

16:00-17:30 ROAD TRANSPORT SERVICES
CHAIR: ANTONIO COUTO (FEUP, PORTUGAL)
LOCATION: GOBELIN ROOM

16:00
Sara Mozzoni (Technomobility srl, Italy)
Benedetto Barabino (Technomobility srl, Italy)
Roberto Murru (CTM SpA, Italy)
IDENTIFYING IRREGULARITY SOURCES BY AUTOMATED LOCATION VEHICLE DATA

16:30
Marco Amorim (FEUP, Portugal)
Sara Ferreira (Faculdade de Engenharia, Universidade Porto, Portugal)
Antonio Couto (FEUP, Portugal)
REACTIVE MODEL FOR AMBULANCE DISPATCHING USING REAL-TIME DATA

16:00-17:30 CITY LOGISTICS
CHAIR: MICHELA LE PIRA (UNIVERSITY OF CATANIA, ITALY, ITALY)
LOCATION: ZENE ROOM

16:00
Andres Monzon (Transport Research Center, TRANSyT-UPM, Spain)
Andrea Alonso (Transport Research Center, TRANSyT-UPM, Spain)
Maria E. Lopez (Transport Research Center, TRANSyT-UPM, Spain)
JOINT ANALYSIS OF INTERMODAL LONG DISTANCE-LAST MILE TRIPS USING URBAN INTERCHANGES IN EU CITIES.

16:30
Andrii Galkin (O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine)
Viktor Doliia (O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine)
Constantin Doliia (O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine)
Natalia Davidich (O. M. Beketov National University of Urban Economy in Kharkiv, Ukraine)
THE ROLE OF CONSUMERS IN THE LOGISTICS SYSTEM

17:00
Inbal Haas (Leibniz Universität Hannover, Germany)
Bernhard Friedrich (Technische Universität Braunschweig, Germany)
DEVELOPING A MICRO-SIMULATION TOOL FOR AUTONOMOUS CONNECTED VEHICLE PLATOONS USED IN CITY LOGISTICS

16:00-17:30 HUMAN FACTORS
CHAIR: TAMÁS SOLTÉSZ
(BUDAPEST UNIVERSITY OF TECHNOLOGY AND ECONOMICS, HUNGARY)
LOCATION: FORRÁS ROOM

16:00
Fabien Leurent (ENPC-LVMT, France)
Cyril Pivano (ENPC-LVMT, France)
Alexis Poulhes (ENPC-LVMT, France)
ON PASSENGER TRAFFIC ALONG A TRANSIT LINE: A STOCHASTIC MODEL OF STATION WAITING AND IN-VEHICLE CROWDING UNDER DISTRIBUTED HEADWAYS

16:30
Andreas Dypvik Landmark (SINTEF Technology and Society, Norway)
Andreas Amdahl Seim (SINTEF Technology and Society, Norway)
Nils Olsson (NTNU, Norway)
VISUALISATION OF TRAIN PUNCTUALITY – ILLUSTRATIONS AND CASES

16:00-17:30 TRANSPORT RELATED SERVICES
CHAIR: ERIK GRUNEWALD (DLR GERMAN AEROSPACE CENTER, GERMANY)
LOCATION: KÁVÉ ROOM

16:00
José Carlos García García (Universidad de Castilla-La Mancha, Spain)
Ricardo García Ródenas (Universidad de Castilla-La Mancha, Spain)
Maria Luz López García (Universidad de Castilla-La Mancha, Spain)
COMMERCIAL ACTIONS MANAGEMENT FOR RAILWAY COMPANIES

16:30
Olaf Milbredt (German Aerospace Center (DLR), Germany)
Andre Castro (Alma Design, Portugal)
Amir Ayazkhani (German Aerospace Center (DLR), Germany)
Thomas Christ (German Aerospace Center (DLR), Germany)
PASSENGER-CENTRIC AIRPORT MANAGEMENT VIA NEW TERMINAL DESIGN CONCEPTS

17:00
Imen Dhief (National school of computer science (ENSI), Tunisia)
Nour Houda Dougui (National school of computer science (ENSI), Tunisia)
Daniel Delahaye (Ecole Nationale d’Aviation Civile, France)
Noureddine Hamdi (INSAT, Tunisia)
CONFLICT RESOLUTION FOR NORTH ATLANTIC AIR TRAFFIC WITH SPEED REGULATION
CONFERENCE PROGRAM

17:30-18:00 CLOSING SESSION
LOCATION: TEA ROOM

17:30  
Riccardo Rossi (University of Padova, Italy)  
CLOSING REMARKS OF EWGT 2017

17:45  
Inbal Haas (Brauschweig, Germany)  
INTRODUCTION OF EWGT 2018 LOCATION

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CIVITAS stands for City-Vitality-Sustainability and is the European Commission’s flagship programme co-financing innovation in resource-efficient and competitive urban mobility and transport. Some 275 towns and cities constitute the network which seeks to realise Cleaner and Better Transport in Cities. Through events, publications, webinars, online resources, thematic working groups, peer-to-peer exchange and financial assistance, the forum ensures all members benefit from one another’s experience and the know-how which is accumulated across Europe.

Local Organization Team

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