FINAL PROGRAM

17th meeting of the
EURO WORKING GROUP ON TRANSPORTATION

EWGT 2014

JULY 2nd - 4th, 2014
SEVILLE, SPAIN

Transportation Engineering Division
SCHOOL OF ENGINEERING, UNIVERSITY OF SEVILLE
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Executive Committee

Francisco G. Benitez, University of Seville (Chairman)

International Scientific Committee

Andrzej Adamsky, University of Science & Technology, Cracow (Poland)
Erel Avineri, Afeka - Tel Aviv College of Engineering (Israel)
Jaume Barceló, Universitat Politècnica de Catalunya, Barcelona (Spain)
Neila Bhouri, University of Paris East / IFSTTAR, GRETTIA (France)
Maurizio Bielli, National Research Council (Italy)
Giulio E. Cantarella, University of Salerno (Italy)
Mauro Dell’Orco, Technical University of Bari (Italy)
Jorge Freire de Sousa, Universidade do Porto (Portugal)
Bernhard Friedrich, University of Hannover (Germany)
Matthew G. Karlaftis, National Technical University of Athens (Greece)
Milica Kalic, University of Belgrade (Serbia)
Michele Ottomanelli, Technical University of Bari (Italy)
Markos Papageorgiou, Technical University of Crete (Greece)
Jean Patrick Lebacque, IFSTTAR (France)
Riccardo Rossi, University of Padova (Italy)
Leena Suhl, University of Paderborn (Germany)
Dusan Teodorovic, University of Belgrade (Serbia)
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S. C. Wong, University of Hong Kong (Hong Kong)
Jacek Zak, Poznan University of Technology (Poland)
Henk van Zuylen, Delft University (Netherland)
Local Organising Committee

Noelia Caceres, University of Seville (Spain)
Francisco J. Cores, University of Seville (Spain)
Jose M. del Castillo, University of Seville (Spain)
Francisco J. Morales, University of Seville (Spain)
Jesus Moreno, University of Seville (Spain)
Antonio Reyes, University of Seville (Spain)
Luis M. Romero, University of Seville (Spain)
Cayetano Ruiz de Alarcon, University of Seville (Spain)
Jose I. Sanabria, University of Seville (Spain)
Johan Wideberg, University of Seville (Spain)
Presentation

In less than fifty years, transportation engineering has been developing very rapidly over the world. The spheres of both theoretical research and application have been much expanded, and many new theories and computing methods have lately emerged. The tendency shows that numerical and computational methods, econometric and sociometric analysis, more and more close integrate with engineering and other sciences, and provide powerful analytical tools for professionals of the sector. These new results and ideas will be exchanged at this International Meeting on Transportation.

Nearly 200 contributions cover a wide range of topics, from pure theoretical development, computing and numerical methods, optimization in transport design, applied software, and practical applications.

Former editions of these meetings have proved to be a success of exchange and cooperation of ideas and friendship in this field. We, all of you and us, intend to continue with this spirit.

All EWGT Committees, supported by the local organizing team warmly welcome all attendants to this gathering.

Francisco G. Benitez

Chairman
EWGT2014 meeting
Professor of Transportation Engineering
School of Engineering, University of Seville, Spain
Meeting Venue

The meeting will be held at the School of Engineering of the University of Seville, which is located in the Cartuja Scientific and Technological Park.

School of Engineering
Av. Camino de los Descubrimientos s/n
41092 Seville
Spain

- Telephone: (+34) 954 48 73 17
- Email: ewgt2014@us.es
- Web: http://congreso.us.es/ewgt2014
How to get to the meeting

Seville is located at the South of Spain, in the region of Andalusia. The School of Engineering is located at Av. Camino de los Descubrimientos s/n, in the Cartuja Island at the North-West of the city (close to the Olympic Stadium and the Alamillo Bridge).

Suggested Information:

By plane:

Getting from the Seville Airport into the centre of Seville is easy and quick. If you catch a Seville Airport Taxi, the journey will take you around 15 min. and costs between 15€ and 22€ depending on which time of day you travel. The taxi rank is just outside the terminal building.

You can also go to the centre of Seville (Plaza de Armas) by an urban transport line that connect both points, with stops, including High Speed Train (AVE) station. The
journey takes 30 minutes. The one-way ticket costs 4€, and you can buy the ticket on board the bus (Information telephone: +34 902 459 954).

By train:

The High Speed train (AVE) train station in Seville (Santa Justa) is located close to the centre of the city and at only a 10 minutes taxi ride to the School of Engineering.

From Santa Justa Station you can go to the meeting venue by bus. There are urban bus lines connecting Santa Justa with the School of Engineering. Use Tussam C2 Line to go from Santa Justa to the meeting Site and C1 Line in the reverse direction.

You can also get the meeting venue by train. Sevilla-Cartuja Station (line C-2) is located close to the School of Engineering. From the station, you must walk about 15 min. Please, check the C-2 line timetable to plan your trip.

By Bus:

Two urban bus lines have their stops at the School of Engineering, C1 Line and C2 Line. You can take these two lines at different point of the city. The two closest transfers are located in Barqueta and Puerta Triana.
The **interurban bus** station of Seville (Plaza de Armas) is at 3km from the School of Engineering. If you prefer to go by walking, the trip takes about 40 mins. It is recommended to take the urban bus (lines 3, 6, C3, C4 in combination with lines C1 or C2).

Plaza the Armas Station also provides with free bicycles to those who have a metropolitan transport card and an interurban bus ticket (bus+bici service). The registration procedure takes 10 min. and it requires a credit card for warranty.

**By bicycle:**

The municipal government of Seville provides with a community bicycle program called **Sevici**. Weekly pass are available at a cost of 13.33€ and are purchasable at each of the bike station by credit card. The bikes can be borrowed from, and returned to, any bike station in the system, making it suitable for one way travel. Each station has between 10 and 40 parking slots to fix and lock the bicycle. There is a bike station besides the School of Engineering available for the meeting attendees.
Local transportation links:

- Seville Airport:
  [http://www.sevilla-airport.com](http://www.sevilla-airport.com)

- Railways Services (RENFE):
  [http://www.renfe.com](http://www.renfe.com)

- Seville Urban Transportation (TUSSAM):
  [http://www.tussam.es](http://www.tussam.es)

- Interurban Bus Station (Plaza de Armas):
  [http://www.autobusesplazadearmas.es](http://www.autobusesplazadearmas.es)

- Bus + Bici Service:

- Public Bicycle Service (SEVICI):
Meeting Dates

From July, 2nd to 4th 2014

On-site registration

On-site registrations will be available on July 2, 2014 until noon at the meeting registration desk. Payment for on-site registrations will be only possible by cash or by credit card. For payment by cash, please provide exact change.

<table>
<thead>
<tr>
<th>REGISTRATION TYPE</th>
<th>RATES (*)</th>
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<tbody>
<tr>
<td>Ordinary</td>
<td>500€</td>
</tr>
<tr>
<td>Student (**)</td>
<td>350€</td>
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<tr>
<td>Accompanying person (***))</td>
<td>200€</td>
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</table>

For the **ordinary** and **student** attendees, the fees include:

- Access to all meeting sessions
- Meeting proceedings
- Reception
- Gala dinner
- Coffee breaks and lunches
- Technical trips

(*) All rates are in euros (EURO €) and include 21% Spain VAT.

(**) **Students** will be requested to present a copy of their student certificate

(***) **Accompanying person**’s registration fees include access to the coffee breaks and lunches, Cocktail reception and Gala dinner. Access to the meeting Rooms will not be allowed.
Technical Secretariat

The technical secretariat will be located during the meeting at the registration desk.

- Telephone: (+34) 954 48 73 17
- Email: ewgt2014@us.es

Registration Secretariat

If you have any question or problem concerning your registration, you can contact the Registration Secretariat by email or fax:

- Fax: (+34) 954 22 59 49
- Email: sevillacongresos2@viajeseci.es

Badge and Registration

The badge and registration will take place from Wednesday 2\textsuperscript{nd} July at 9:00 am in the Technical Secretariat located in the registration desk. During the registration process, the attendees will receive a name badge and the meeting documents.

For security reasons, the badge will be required to access the meeting rooms and all events organized during the meeting.

Social Program

Coffee breaks and lunches

The Coffee breaks and work lunches will be served in ground floor, in the School Hall (see Site Map – Ground Floor)
The Get-together and Cultural Visit

A welcome Reception will take place on Wednesday 2nd July, with a visit to the Monastery of Santa María de las Cuevas, also known as the Monastery of the Cartuja, from 19:00 to 21:00. This is a masterpiece from the XV century where Cristófer Columbus first revealed his plans to navigate Westward to reach the coast of the Indies and help for recommendations to be received by the Queen Elisabeth and King Ferdinand (The Catholic Kings).

Dress code: casual (it is summer in Sevilla !!!).

Monastery of the Cartuja

Américo Vespucio, 2
41092 Seville

(1.5 Km away from the School of Engineering, 25 minutes walking)

The Gala Dinner

The Dinner will take place in Villa Luisa on Thursday 3th, from 20:00 to midnight. Villa Luisa is a private property built in 1925 as a facility for the Ibero-American Exposition of 1929 in Seville. It has a modernist garden, a Neo-Mudejar palace and a glass pavilion
that can remind the visitor, on a smaller scale, the one installed in the Retiro Park in Madrid.

**Dress code:** smart casual.

**Villa Luisa**

Avenida Manuel Siurot, 1

41013 Seville

(10 minutes walking from Maria Luisa Park, Bus lines 1, 3, 4, 34 and 37)

**Language**

The official language of the meeting is English.
Internet connection

WIFI Network

The EWGT2014 makes some WI-FI networks available to the meeting attendees in the School of Engineering of the University of Seville.

- In session rooms.
- The Coffee-Lunch and Poster area (ground floor).

Workroom: Ethernet connection

A workroom in the E2 floor (Room 319) is available during all the meeting duration. In this workroom, the attendees will find some workstations connected to Internet via Ethernet connections at their disposal.
Lectern Session

Guidelines for the Oral Presentation

Oral sessions provide an opportunity for speakers to present their findings in a formal setting. Each speaker is allotted 15 minutes for the presentation with an extra of 5 minutes for questions and answers. A period for questions is desirable, but optional depending on the time remaining.

Audio-visual Information

Projectors and computers are included in each meeting room. Please, notify to EWGT Organization if you need additional audio-visual equipment. Internet access may not available in some meeting rooms. Please, notify to EWGT Organization if internet is required for your presentation. Speakers are asked to bring their presentations on a data stick and arrive at the lecture room at least five minutes before the start of the session in order to load the presentation. **Presentations are not pre-loaded on to the computer in the meeting rooms. Speakers are responsible for loading and running their own presentations.**

Suggestions for Chairs of Lectern Sessions

- Start the session on time. Make any “announcements” and remind everyone to silence all mobile devices.
- Inform EWGT staff at the EWGT Registration Desk of any facility or audiovisual concerns.
- Introductions of speakers should generally be limited to the presentation title, speaker’s name, title, and organization. Any additional information on the speaker’s background relevant to the presentation can be conveyed by the speaker as part of his/her presentation.
- Make every effort to maintain the order of the speakers according to the program listing.
- Control the time limitations for each speaker.
- Invite questions from the audience and pose your own questions as time permits.
- When an attendee asks a question, ask her or him to give name and affiliation.
- Keep aisles, the back of the room, and doorways clear as required by the Fire Marshal. Ask attendees to sit in any available seats rather than standing.
- Repeat “announcements” before adjourning.
- Adjourn the session no later than the time shown in the Final Program so that the next meeting using the room can begin on time.

**Poster Session**

**Guidelines for the Poster Session**

Authors presenting a submitted and accepted abstract or paper have three options:

- To present the research in a Lectern Session only
- To present the research in a Poster Session only
- To present the research in both (a Lectern and a Poster) Sessions

You can also present your research in a Poster Session. Let us know as soon as possible if you are interested, in order to assign the time-window and the allocation of your poster. Presenting the research in a Poster Session (additionally to the Lectern Session) is a valuable opportunity to explain details of the conducted research to interested attendees for in-depth discussions. It is an opportunity to build common links between researchers in an informal setting. Posters sessions run in the morning and afternoon, 30 minutes ahead and after coffee breaks (it will not interfere with your presentation in the Lectern Session). EWGT2014 provides display boards for this purpose (2.56 m high x 0.95m wide, free space for each poster). In case you are only interested in presenting your contribution in Poster Session, let us know you are not presenting your contribution in a Lectern Session.
Site Map

School of Engineering

MEZZANINE 2 (E2)
WORK AREA - ROOM 319
(Computers + Internet)

FIRST FLOOR (P1)
LIBRARY

MEZZANINE 1 (E1)
ROOM 102
ROOM 111

GROUND FLOOR (PB)
REGISTRATION DESK
ASSEMBLY HALL
ROOM 002
ROOM 003
ROOM 005
ROOM 006
COFFEE – LUNCH
POSTER
STATIONERY SHOP
Mezzanine 1 (E1)
First floor (P1)
Mezzanine 2 (E2)
## Schematic Program

### WEDNESDAY (July 2nd)

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<td>10.15 - 10.45</td>
<td>In Memoriam: A few words about</td>
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<td>Prof. Matthews G. Karlaftis Editor-in-Chief Transportation Research C</td>
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<td></td>
<td>National Technical University of Athens, Greece</td>
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<td>18.30</td>
<td>GET TOGETHER: CULTURAL VISIT</td>
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<td>8.30 - 9.30</td>
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<td>Mobility, Logistics and Automotive Technology Research Centre</td>
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<td></td>
<td>Vrije Universiteit Brussel, Belgium</td>
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<td>&quot;The 5 A’s of Sustainable Logistics: innovative solutions and challenges ahead&quot;</td>
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<td>Sustainable Mobility II</td>
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<td>Travel Time Studies</td>
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FRIDAY (July 4th)

PARALLEL SESSIONS H

H1. Driver Behaviour II
H2. Public Transport Scheduling
H3. Network Traffic Analysis
H4. User and Traveler Information

10:30 - 11:00 POSTER SESSION II
10:45 - 11:15 COFFEE BREAK
11:00 - 11:30 POSTER SESSION II

Invited Lecture by:
Dr. Antonio Soria
Head of Unit J.1 - Economics of Climate Change, Energy and Transport
JRC-IPTS, European Commission
"Quantitative analysis to support EU transport policies: an insight from the Joint Research Centre"

12:35 - 13:30 Closing session
13:30 - 15:00 LUNCH
Wednesday, July 2

PARALLEL SESSION A

A1. Vehicle Routing (ROOM 002)
36. Time dependent travel speed vehicle routing and scheduling on a real road network: the case of Torino
Mancini, S.
156. A Flexible Transport Service for Passengers
Carotenuto, P.; Paradisi, L.; Storchi, G.
174. The Speed Dependent HVRP with Environmental Considerations
Molina, J. C.; Racero, J.; Eguía, I.; Guerrero, F.
189. A multi-objective time-dependent route planner: a real world application to Milano city
Bruglieri, M.; Colorni, A.; Lia, F.; Luè, A.
170. The Electric Vehicle Routing Problem with industry constraints
Anagnostopoulou, A.; Boile, M.; Theofanis, S.; Sdoukopoulos, E.; Margaritis, D.

A2. Sustainable Mobility I (ROOM 003)
96. Enabling a two-way carsharing system to provide one-way service
Jorge, D.; Barnhart, C.; Correia, G.
99. Simulating carsharing operations through agent based modelling: an application to the city of Lisbon, Portugal
Mendes Lopes, M.; Martínez, L. M.; Correia, G.
226. Designing optimal routes for cyclo-tourists
Cerna, A.; Cerny, J.; Malucelli, F.; Nonato, M.; Polena, L.; Giovannini, A.
234. Modelling the propensity in adhering to a carsharing service: a behavioral approach
De Luca, S.; Di Pace, R.
210. Optimization of cycle paths with mathematical programming
Liñán, R. J.; Gaspar, I.; Bordagaray, M.; Moura, J. L.; Ibeas, Á.

A3. Intersection Design and Analysis I (ROOM 005)
16. Robust Optimization of Intersection Capacity
Sacco, N.
112. Evaluation of air pollution impacts of a signal control to roundabout conversion using microsimulation
Gastaldi, M.; Meneguzzo, C.; Rossi, R.; Della Lucia, L.; Gecchele, G.
120. Performance Analyses on Four-Legged Signalized Junctions: A Case Study
Javanshour, F.; Berk Celikoglu, H.
118. Optimal Design and Real-Time Traffic Signal Control Using Latest Data Collection Technologies
Chandan Kancharla, K.; Seco, A.; Bastos Silva, A.

PARALLEL SESSION B  Wednesday, 15h00-16h30

B1. Public Transport Planning (ROOM 002)
222. Integration of the urban public transportation system with the application of traffic simulation
Solecka, K.; Zak, J.
224. Application of AHP method for multi-criteria evaluation of variants of the integration of urban public transport
Nosal, K.; Solecka, K.
78. Identifying priority areas for the improvement of urban taxi service quality
Wong, R.C.P.; Szeto, W.Y.; Wong, S.C.
150. High Speed Train Demand Management in Turkey
Cankat Tanriverdi, S.; N. Özgür Bezgin, N. Özgür B; Karasahin, M.

B2. Air Quality and Emissions I (ROOM 003)
7. Energy and environmental impacts of potential application of fully or partially electric propulsion vehicles: application to Lisbon and São Miguel, Portugal
Baptista, P.; Tavares, J.; Gonçalves, G.
22. The ancillary role of CO2 reduction in urban transport plans
Nocera, S.; Cavallaro, F.
29. Emissions cap-and-trade approaches for managing urban road mobility
235. A sensitivity analysis of total cost of ownership for electric public bus transport systems in Swedish medium sized cities
Nurhadi, L.; Borén, S.; Ny, H.

B3. Decision Support Systems (ROOM 005)
15. Sensitivity Analysis of Different Supply Design Alternatives: Experimental Results
Sacco, N.; Gattorna, E.; Baudà, A.
57. An AHP approach to aircraft selection process
Dozic, S.; Kalic, M.
65. A decision support system based on Electre III for safety analysis in a suburban road network
Fancello, G.; Carta, M.; Fadda, P.
206. The Investment Decision Process: how to formulate priorities in the transport sector?
Venezia, E.
C1. Behavioral Studies (ROOM 002)

10. Effects of combined curves on driver’s speed behavior: driving simulator study
Bella, F.

19. Geographic, social-cultural and modal usage determinants of activity space: a case study of EU Institutions in Luxembourg and Strasbourg
Ma, TY; Gerber, P.; Carpentier, S.; Klein, S.

98. Travel pattern of the Andalusian population, regarding to different daily activities: travel to work, studies, household responsibilities and leisure
Olmo Sánchez, M. I.; Maeso, E.

212. Users’ preferences towards automated road public transport: results from European surveys
Alessandrini, A.; Alfonsi, R.; Delle Site, P.; Stam, D.

C2. City Logistics (ROOM 003)

207. The Multi-Path Traveling Salesman Problem with Stochastic Travel Costs. Building Realistic Instances for City Logistics Applications
Maggioni, F.; Perboli, G.; Tadei, R.

11. ITS for e-grocery business: the Simulation and Optimization of Urban Logistics project
Cagliano, A. C.; Gobbato, L.; Tadei, R.; Perboli, G.

54. Factors Influencing Logistics Service Providers’ Efficiency in Urban Distribution Systems
De Marco, A.; Cagliano, A. C.; Mangano, G.; Perfetti, F.

59. Reduced urban traffic and emissions within urban consolidation centre schemes: The case of Bristol
Paddeu, D.; Fadda, P.; Fancellò, G.; Parkhurst, G.; Ricci, M.

194. Artificial Neural Networks Application to estimate the distribution of travel soybeans for export in Brazil
Gonçalves, D.; Aragão, G.; Da Silva, M.; D’agosto, M.

C3. Freight Terminals (ROOM 005)

9. Trip Allocation and stacking policies at a container terminal
Güven, C.; Türsel Eliyiyi, D.

60. A micro-simulation model for performance evaluation of a logistics platform
Gattuso, D.; Cassone, G. C.; Pellicanò, D. S.

146. Strategic Determinants of Terminal Operating System Choice: An Empirical Approach using Multinomial Analysis
Acciaro, M.; Serra, P.
117. An Agent-based Approach to Schedule Crane Operations in Rail-Rail Transshipment Terminals
Heshmati, S.; Kokkinogenis, Z.; Rossetti, R.; Oliveira, J. F.; Carravilla, M. A.

236. Optimizing the operational process at container terminal
Mili, K.
Thursday, July 3

PARALLEL SESSION D  Thursday, 9h30-11h00

D1. Infrastructure Planning and Maintenance (ROOM 002)

56. Tools for road infrastructure safety management –Polish experiences
Jamroz, K.; Budzynski, M.; Kustra, W.; Michalski, L.; Gaca, S.

92. A quantitative approach to risk management in Critical Infrastructures
Sapori, E.; Sciutto, M.; Sciutto, G.

76. Sustainable Transport: Using Driver Verbal Protocols to Identify Highway Design
Deficiencies
Ventsislavova-Petrova, P.; García-Fernández, P.; Castro, C.; Horberry, T.

95. Models for the hazardous goods railway transportation in Spain considering the
effect of the catchment area of the station
Del Castillo, J. M.; Caceres, N.; Romero, L. M.; Benítez, F. G.

D2. Public Transport Accessibility (ROOM 003)

167. Efficiency of networks of collective transportation line system
Barrena, E.; De los Santos, A.; Laporte, G.; Juan A. Mesa, J. A.

68. Multi-objective optimization in dial-and-ride public transportation
Guerriero, F.; Pezzella, F.; Pisacane, O.; Trollini, L.

114. Public Transport Systems’ Connectivity: Spatiotemporal Analysis and Failure Detection
Hadas, Y.; Rossi, R.; Gastaldi, M.; Gecchele, G.

148. Potential impacts on accessibility and consumer surplus of improvements of the European railway system

D3. Smart City (ROOM 005)

108. A Semantic-Enhanced Augmented Reality Tool for OpenStreetMap POI Discovery
Ruta, M.; Scioscia, F.; De Filippis, D.; Ieva, S.; Binetti, M.; Di Sciascio, E.

13. Extracting urban activities through aggregate cellphone usage
Demissie, M. G.; Correia, G.; Bento, C.

80. A new taxonomy of Smart City projects
Perboli, G.; De Marco, A.; Perfetti, F.; Marone, M.

21. ITS for Public Transport: how to define operation requirements selecting the best solutions on the market
Ambrosino, G.; Gini, S.; Mussone, L.
D4. Traffic Flow Models (ROOM 006)

14. Real-time single detector vehicle classification
   Dodsworth, J.; Shepherd, S.; Liu, R.

53. Calibration of the Gipps car-following model using trajectory data
   Vasconcelos, L.; Neto, L.; Santos, S.; Bastos Silva, A.; Seco, Á.

67. Calibration of microsimulation models – The effect of calibration parameters
   errors in the models’ performance
   Figueiredo, M.; Seco, Á.; Bastos Silva, A.

   using CTM-v and EnKF
   Allström, A.; Bayen, A.; Fransson, M.; Gundlegård, D.; Patire, A.; Rydberg, C.; Sandin, M.

D5. Railways (ROOM 111)

233. Comparison of light rail systems in Turkey with the method of comparative
   standard determination
   Vitosoglu, Y.; Ozden, R.; Yaliniz, P.; Bilgic, S.

17. Short-term rail rolling stock rostering and maintenance scheduling

39. Robust Infrastructure design in Rapid Transit Rail systems
   Codina, E.; Marín, A. G.; Cadarso, L.

140. A Rolling Stock Circulation Model for Railway Rapid Transit Systems
   Canca, D.; Sabido, M.; Barrena, E.

220. Multiple criteria evaluation of different redesign variants of the public tram
   system
   Kiba-Janiak, M.; Zak, J.

POSTER SESSION I  Thursday, 11h00-12h00

POSTER AREA

Board 01  34. Parking pricing for a sustainable transport system
           Migliore, M.; Lo Burgio, A.; Di Giovanna, M.

Board 02  113. The influence of accumulation area and the length of
               pedestrian route on functioning of Roundabouts with Traffic Signals
               Gumsinska, L.; Kustra, W.

Board 03  138. IPET (Individual Persuasive Eco-Travel Technology): a first pilot
               test
               Meloni, I.; Delogu, G.; Sanjust Di Teulada, B.; Sottile, E.
| Board 04 | 145. A Neural Network based model for real estate price estimation considering environmental quality of property location  
Chiarazzo, V.; Caggiani, L.; Marinelli, M.; Ottomanelli, M. |
| Board 05 | 161. Prediction of road accident severity using the ordered probit model  
Garrido, R.; Bastos Silva, A.; De Almeida, A.; Elvas, J. |
| Board 06 | 162. A Conceptual Algorithm to Link Police and Hospital Records Based on Occurrence of Values  
Amorim, M.; Ferreira, S.; Couto, A. |
| Board 07 | 181. Decision support system for city logistics: literature review, and guidelines for an ex-ante model  
Bozzo, R.; Conca, A.; Marangon, F. |
| Board 08 | 214. Bilevel programming based algorithm for the O/D matrix adjustment  
Reyes, A.; Romero, L. M.; Benítez, F. G. |
| Board 09 | 215. A management model for automated railways maintenance  
Cores Prieto, F. J.; Caceres, N.; Benítez, F. G.; Escribá Marín, S.; Jiménez-Redondo, N. |
| Board 10 | 237. Features Selection based on fuzzy entropy for Data Envelopment Analysis applied to transport systems  
Bray, S.; Caggiani, L.; Dell'Orco, M.; Ottomanelli, M. |
| Board 11 | 239. Development of Autonomous Drive and Platooning for Toyota COMS using Digital Map, GPS and Wireless sensor network  
Kanchwala, H.; Ogai, H.; Wideberg, J. |

**PARALLEL SESSION E**

**Thursday, 12h00-13h30**

**E1. Traffic Flow Studies (ROOM 002)**

88. Analysis of Congestion Phenomena on the One Lane Dropped Motorway Merge without Ramp-Metering in Istanbul  
Aksoy, G.; Selçuk Öğüt, K.  

111. Flow Rate Effects on Vehicle Speed at Two Way-Two Lane Rural Roads  
Rossi, R.; Gastaldi, M.; Pascucci, F.  

45. Assessing The Impact Of Speed Limit Changes On Urban Motorways: A Simulation Study In Lille, France  
Cohen, S.; Christoforou, Z.; Seidowsky, R.  

75. On the origin of statistical micro-distributions in socio-dynamical systems  
Krbalek, M.
E2. Intermodality (ROOM 003)

3. The academic literature on intermodal freight transport
   Mathisen, T.; Sandberg Hanssen, T. E.

52. Performance indicators for planning intermodal barge transportation systems
   Wang, Y.; Bilegan, I.; Crainic, T. G.; Artiba, A.

86. Incorporating Systems Engineering Methodologies to Increase the Transferability of Journey Planners
   Shoshany-Tavory, S.; Gal-Tzur, A.; Eden, N.

126. IT based Attempt to Evaluate and Promote Intermodal Transport Solutions in Central and Southeast Europe
   Haider, C.; Aschauer, G.; Schmidt, C.

E3. Traffic Signal Control (ROOM 005)

40. Evaluation of a signal state prediction algorithm for car to infrastructure applications
   Barthauer, M.; Friedrich, B.

101. Offset Optimisation of Traffic Lights in Urban Road Networks Assessment of Environmental Impacts
   Friedrich, B.

103. Decentralized spatial decomposition for Traffic Signal Synchronization
   Adacher, L.; Gemma, A.; Oliva, G.

149. Combining Ramp Metering and Hard Shoulder Strategies: Field Evaluation Results on The Ile de France Motorway Network
   Haj-Salem, H.; Farhi, N.; Lebacque, J. P.

E4. Logistics (ROOM 006)

168. The contribution of scientific productions at the beginning of the third millennium (2001 - 2014) for humanitarian logistics: a bibliometric analysis
   Zary, B.; Bandeira, R.; Campos, V.

204. Dynamic location of distribution centres, a real case study
   Segura, E.; Carmona Benítez, R. B.; Lozano, A.

223. The selection of the logistics center location based on MCDM/A methodology
   Zak, J.; Weglinski, S.

143. Structuring the distribution process of relief supplies
   Costa, S.; Bandeira, R.; Campos, V.

E5. Maritime Transport (ROOM 111)

55. Port Cooperation Policies in the Mediterranean Basin: an Experimental Approach using Cluster Analysis
   Fancello, G.; Pani, C.; Serra, P.; Fadda, P.

125. A Simulation Based Approach for Evaluating the Impact of Maritime Transport
17th meeting of the EURO Working Group on Transportation
EWGT 2014

on the Inventory Levels of an Oil Supply Chain
Carotenuto, P.; Giordani, S.; Zaccaro, A.

139. Grid size optimization for potential field based maritime anomaly detection
Osekowska, E.; Johnson, H.; Carlsson, B.

237. Features Selection based on fuzzy entropy for Data Envelopment Analysis applied to transport systems
Bray, S.; Caggiani, L.; Dell’Orco, M.; Ottomaneli, M.

PARALLEL SESSION F Thursday, 15h00-16h30

**F1. Driver Behaviour I (ROOM 002)**

26. Analysis of the Driving Behaviour at Weaving Section Using Multiple Traffic Surveillance Data
Kusuma, A.; Liu, R.; Choudhury, C. F.; Montgomery, F.

62. Quantification of the impacts of eco-driving training and real-time feedback on urban buses drivers’ behavior: a Lisbon case study
Rolim, C.; Baptista, P.; Duarte, G.; Farias, T.; Shiftan, Y.

81. Assessment and Training of Hazard Perception: Creating a tool able to evaluate different driver profiles
Gugliotta, A. A.; Ventsislavova-Petrova, P.; Peña-Suárez, E.; García-Fernández, P.; Padilla, J. L.; Castro, C.

**F2. Air Quality and Emissions II (ROOM 003)**

43. Evaluation of a numerical methodology to estimate pedestrians’ energy consumption and PM inhalation
Faria, M.; Duarte, G.; Vasconcelos, A.; Farias, T.

105. Road grade influence on exhaust emissions of a scooter fuelled with bioethanol/gasoline blends
Prati, M. V.; Costagliola, M. A.; Tommasino, C.; Della Ragione, L.; Meccariello, G.

124. Assessing the importance of vehicle type for the implementation of eco-routing systems
Bandeira, J. M.; Fontes, T.; Pereira, S.; Fernandes, P.; Khattak, A. J.; Coelho, M.

**F3. Public Transport Models (ROOM 005)**

50. Improvement of the operation of the feeder bus routes to Suburban train Buenavista - Cuautitlan (Mexico DF)
Vázquez González, F. J.; Sastre, J.; Signoret Solís, A.

64. The dynamic interaction between passenger flows and rail service
Campora, S.; Botte, M.; D’Acierino, L.; Plácido, A.; Montella, B.

191. The influence of the sidewalk parking onto curb bus lanes efficiency
Bauer, M.
F4. Pricing (ROOM 006)
4. A bilevel multi-objective road pricing model for economic, environmental and health sustainability
Wang, J. Y. T.; Ehrgott, M.; Dirks, K. N.; Gupta, A.
115. How varies optimal welfare pricing with income distribution? The case of the untolled alternative
Ortega, A.; Vassallo, J. M.; Pérez, J. I.
227. Evaluating factors of the willingness to pay to mitigate the environmental effects of freight transportation crossing the Pyrenees
Lera-López, F.; Faulín, J.; Sánchez, M.; Serrano, A.

F5. Transport Reliability (ROOM 111)
33. Benefits of a combined micro-macro approach for managing rail systems in case of disruptions
Plácido, A.; Cadarso, L.; D’Acierno, L.
190. Discrete choice models to determine high speed passenger stop under emergency conditions
Sañudo, R.; Bordagaray, M.; Dell’Olio, L.; Ibeas, Á.
231. Solving air transport contingencies by using genetic algorithms – RUCCMAN
Ríos–Fernández, J. M.; Redondo Sánchez, M.; Gómez Lorenzo, J. J.; Timón Reina, S.
61. A Line Planning Model for Delay Resistance
Harbering, J.; Schöbel, A.

PARALLEL SESSION G Thursday, 16h30-18h00

G1. In Vehicle Data Acquisition (ROOM 002)
107. Comparison between vehicle speed profiles acquired by differential GPS and UAV
Salvo, G.; Caruso, L.; Scordo, A.; Guido, G.; Vitale, A.
154. Level of service estimation based on low-frequency floating car data
Axer, S.; Friedrich, B.
176. Identifying road bumps and potholes by smartphone sound pressure measurements
Astarita, V.; Festa, C. D.; Mongelli, D.; Giorgi, P.
180. New Technologies for Public Transport in Favelas
Gonçalves, C.; Bandeira, R.

G2. Network Analysis (ROOM 003)
79. Real-time estimation of critical accumulation in perimeter flow control for
maximum network throughput
Ampountolas, K.; Kouvelas, A.
197. Analysis of the difference between the Euclidean distance and the actual road distance in Brazil
Gonçalves, D.; Gonçalves, C.; Assis, T.; Da Silva, M.
203. Techniques in Multimodal Shortest Path in Public Transport Systems
López Flores, D.; Lozano, A.
228. Reverse Assignment Formulation in Evacuation Simulation
Polimeni, A.; Vitetta, A.

G3. Transport Policy (ROOM 005)
121. Market share modelling in airline industry: an emerging market economies application
Babic, D.; Kuljanin, J.; Kalic, M.
171. Problems about Turkish Parking Regulations
Bilgic, S.; Yaliniz, P.; Vitosoglu, Y.
230. Issues on Brazilian Public Transport Policy: Brasilia Metropolitan Area Case Study
Aveni, A.
37. Development of an integrated transport-land use model for the activities relocation in urban areas
Brandi, A.; Gori, S.; Nigro, M.; Petrelli, M.

G4. Sustainable Mobility II (ROOM 006)
24. IEE ENCLOSE project: the integration of Sustainable Urban Logistics and Mobility Plans in 9 European small/mid-size towns
Ambrosino, G.; Pettinelli, I.; Bellini, R.; Gini, S.; Guerra, S.
183. A methodology to promote sustainable mobility in college campuses
Dell'Olio, L.; Bordagaray, M.; Barreda, R.; Ibeas, Á.
192. Comparing urban mobility indicators on the implementation of non motorised vehicles strategies in urban areas
Duarte Sastre, J. A.; Berazain, M.; Pineda Gamarra, P.
23. Sustainable services activated in Treviso urban area under Life+ PERTH project: an example of mobility governance in a medium sized city
Gini, S.; Mingardo, M.; Dall’Agnol, M.; Ambrosino, G.; Liberato, A.
196. Analysis of alternatives for the outflow of soybeans the State of Mato Grosso
Assis, T.; Gonçalves, C.; Gonçalves, D.; Da Silva, M.; Cesar Amorim, J. C.

G5. Travel Time Studies (ROOM 111)
51. Isolating Different Factors Affecting Travel Time Reliability in an Observational
Before/After Study

Bhouri, N.; Aron, M.

141. Estimating Travel Time Distribution under different Traffic conditions
Guessous, Y.; Aron, M.; Bhouri, N.; Cohen, S.

164. Upper bounds for the travel time on traffic systems
Farhi, N.; Haj-Salem, H.; Lebacque, J. P.

184. Travel time of public transport vehicles estimation
Birr, K.; Janroz, K.; Kustra, W.

209. Analytical formulation of trip travel time distribution
Chen, X.; Osorio, C.
Friday, July 4

PARALLEL SESSION H  
Friday, 9h00-10h30

H1. Driver Behaviour II (ROOM 002)
35. Temporal Adaptation to Reward Schemes: Results of the SpitsScoren Project  
Khademi, E.; Timmermans, H.; Borgers, A.
66. Driver Behavior Characterization in Roundabout Crossings  
Bastos Silva, A.; Santos, S.; Vasconcelos, L.; Seco, Á.; Silva, J.
169. Sustainable traffic safety management at accident black spots combined with  
drivers’ psychology and vehicle engineering using Eye Mark Recorder  

H2. Public Transport Scheduling (ROOM 003)
18. Evaluating the applicability of advanced techniques for practical real-time train  
scheduling  
D’Ariano, A.; Samà, M.; D’Ariano, P.; Pacciarelli, D.
186. Simultaneous frequency and capacity setting in uncapacitated railway lines in  
presence of a competing mode  
De los Santos, A.; Laporte, G.; Juan A. Mesa, J. A.; Perea, F.
25. Acceleration strategies for improving railway rapid transit systems: building  
schedules for a given frequency distribution  
Zarzo, A.; Canca, D.
47. Optimal timetables and vehicle schedules in a transit network  
Laporte, G.; Ortega, F. A.; Pozo, M. A.; Puerto, J.

H3. Network Traffic Analysis (ROOM 005)
116. Estimation of the Network Fundamental Diagram (NFD) indicator: an urban  
application in emergency conditions  
Musolino, G.; Vitetta, A.
163. Dynamic assignment with user information in multimodal networks  
Atmani, D.; Lebacque, J. P.; Bhouri, N.; Haj-Salem, H.
205. A bilevel optimization program with equilibrium constraints for an urban  
network dependent on time  
Londono, G.; Lozano, A.
131. The impact of vehicular networks on urban networks  
Khoshyaran, M.
199. Macroscopic modeling of very large networks  
Lebacque, J. P.; Khoshyaran, M.
H4. User and Traveler Information (ROOM 006)

63. Effects of information provision activities in streets on driving speeds
Mimura, Y.; Kato, H.; Higuchi, K.; Ono, T.; Ando, R.

84. A Stated Adaptation Approach to Assess Changes in Individuals’ Activity-Travel Behavior in Presence of Personalized Travel Information
Parvaneh, Z.; Arentze, T.; Timmermans, H.

123. Emissions impact of road traffic incidents using Advanced Traveller Information Systems in a regional scale
Fontes, T.; Lemos, A.; Fernandes, P.; Pereira, S.; Bandeira, J. M.; Coelho, M.

85. Evaluation of providing recommended speed for reducing CO2 emissions from vehicles by driving simulator
Matsumoto, Y.; Tsurudome, D.

POSTER SESSION II  Friday, 10h30-11h30

POSTER AREA

Board 01  20. Distributed regret matching algorithm for dynamic congestion games with information provision
Ma, TY; Gerber, P.

Board 02  27. Integrating Environmental Policies into Transport Business Strategy: A Framework for Decision Support
Teles, M. F.; Freire De Sousa, J.

Board 03  53. Calibration of the Gipps car-following model using trajectory data
Vasconcelos, L.; Neto, L.; Santos, S.; Bastos Silva, A.; Seco, Á.

Board 04  77. Situation Awareness of Spanish drivers: Measuring their accuracy on the Hazard Perception Test
Peña-Suárez, E.; Gugliotta, A. A.; Ventsislavova-Petrova, P.; García-Fernández, P.; Padilla, J. L.; Castro, C.

Board 05  107. Comparison between vehicle speed profiles acquired by differential GPS and UAV
Salvo, G.; Caruso, L.; Scordo, A.; Guido, G.; Vitale, A.

Board 06  110. Real-time traffic signal settings at an isolated signal control intersection
Vilarinho, C.; Tavares, J. P.

Board 07  164. Upper bounds for the travel time on traffic systems
Farhi, N.; Haj-Salem, H.; Lebacque, J. P.
Board 08  213. Updating trip matrices using heterogeneous data source under confidence interval constraints and high convergence assignment
Benítez, F. G.; Reyes, A.; Romero, L. M.; Caceres, N.; Del Castillo, J. M.

Board 09  217. Analysis of disaggregated traffic count of dangerous goods through ANPR systems
Morales, F. J.; Benítez, F. G.

Board 10  218. Potentials for the modal shift from road to rail in the transport of dangerous goods
Caceres, N.; Romero, L. M.; Benítez, F. G.; Del Castillo, J. M.; Sastre, J.

Board 11  219. Demand models for the transportation of dangerous goods by road in Andalusia
Romero, L. M.; Caceres, N.; Benítez, F. G.; Del Castillo, J. M.
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