



# AIIT International Congress on Transport Infrastructure and Systems

Venue: Rome, ACI Building, Via Marsala, 8

## Program

[www.tisroma.aiit.it](http://www.tisroma.aiit.it)

### Monday, April 10, 2017

8.30-9.00	Registration		
9.00-10.30	Opening Ceremony – Hall 1		
10.30-11.00	Coffee Break		
11.00-13.00	Session 1 – Hall 1 Transportation Policy and Sustainability	Session 4 – Hall 2 Transportation Management	Session 7 – Hall 3 Road Geometric Design
13.00-14.00	Lunch		
14.00-16.00	Session 2 – Hall 1 Sustainable Mobility Planning	Session 5 – Hall 2 Mobility Planning and Traffic Models	Session 8 – Hall 3 Road Safety Planning and Interventions
16.00-16.30	Coffee Break		
16.30-19.00	Session 3 – Hall 1 Sustainable Road Construction Practices	Session 6 – Hall 2 Traffic Management	Session 9 – Hall 3 Road Safety Management
19.00-19.30	Welcoming reception		

### Tuesday, April 11, 2017

8.30-9.00	Registration		
9.00-11.00	Session 10 – Hall 1 Railway Design	Session 13 – Hall 2 Urban Transport	Session 16 – Hall 3 Road Performance Management
11.00-11.30	Coffee Break		
11.30-13.30	Session 11 – Hall 1 Railway Maintenance	Session 14 – Hall 2 Airport Planning, Design and Management	Session 17 – Hall 3 Pavement design
13.30-14.30	Lunch		
14.30-17.00	Session 12 – Hall 1 Sustainable Railway Construction Practices	Session 15 – Hall 2 Maritime Transport and Hubs	Session 18 – Hall 3 Asphalt Materials and Innovation
17.00-20.00	AIIT Members Annual Meeting – Hall 1		
20.00-22.00	Gala Dinner		

### Wednesday, April 12, 2017

8.30-9.00	Registration		
9.00-11.00	Session 19 – Hall 1 Driving Behavior and Human Factors	WORKSHOP – Hall 2 GASTone “New powertrain concept ...” – parte 1	Session 20 – Hall 3 Road Traffic Data Monitoring
11.00-11.30	Coffee Break		
11.30-12.00	Plenary session – Hall 1 Michael T. Long Best Paper Awards		WORKSHOP – Hall 2 GASTone “New powertrain concept ...” – parte 2
13.30-14.30	Lunch		
15.00-17.00	Session 21 – Hall 1 I-BIM Infrastructure Building Information Modeling	Technical Visit 1 (TV-1) ACI Safe Driving Centre Campagnano	Technical Visit 2 (TV-2) HS Railway control Centre Roma Termini



# AIIT International Congress on Transport Infrastructure and Systems

Monday, April 10, 2017

Opening Ceremony – Hall 1 (9.00-10.30)	Chairman <i>Gianluca Dell’Acqua</i>
<p>Welcome speech <i>Giovanni Mantovani</i> AIIT President</p> <p>Opening Lecture <i>Ennio Cascetta</i> Chief of the Technical Structure of Mission for the strategic planning, infrastructure development and the high supervision at the Ministry of Infrastructure and Transport.</p> <p>Congress overview <i>Fred Wegman</i> Professor Emeritus, Delft University of Technology</p>	

Session 1 – Hall 1 Transportation policy and Sustainability (11.00-13.00)	Chairman <i>Cesar Queiroz</i>
Critical success factors for PPP infrastructure projects in India <i>Rudra P. Pradhan, Aakriti Verma, Saurav Dash, Kunal Gaurav and Rana P. Maradana</i>	332
New methods to implement road concession through PPP initiatives: a case study <i>Marcello Petrangeli, Francesco Longo and Sonia Gregori</i>	253
Fiscal Commitments to Encourage PPP Projects in Transport Infrastructure <i>Nozomi Nose, Cesar Queiroz and Manabu Nose</i>	161
Governance Related Success Factors in Public Private Partnerships <i>Cesar Queiroz and Paul Reddel</i>	23
Sustainable development of the transport system by rationalizing the transport tasks on the basis of specialized travel planner <i>Ireneusz Celiński, Grzegorz Sierpiński and Marcin Staniek</i>	335
Total management tool oriented to carbon footprint reduction in terminals of containers. <i>Francisco Enrique Santarremigia, Gemma Dolores Molero, María Deseada Esclapez and Samir Awad-Núñez</i>	282
Enhanced financial analysis to evaluate mass transit proposals in terms of contribution on resilience increasing of urban systems <i>Andrea Spinosa</i>	173

Session 2 – Hall 1 Sustainable Mobility Planning (14.00-16.00)	Chairman <i>Paolo Fadda</i>
Monitoring the transport sector within the sustainable energy action plan: first results and lessons learnt <i>Ilaria Delponte</i>	18
Smart cyber systems incorporating human-in-the-loop towards ergonomic and sustainable transport systems <i>Fabio Galatioto, Claudio Salvadori, Matteo Petracca, Alessandro Pollini, Jesus Garcia Herrero and Maria Jose Santofimia</i>	164

A cycling mobility study case: the European Cycling Challenge 2015 in Naples <i>Carmine Aveta and Massimiliano Moraca</i>	145
Multimodal accessibility and the interest towards inter-urban carsharing services: a behavioural approach <i>Stefano de Luca, Roberta Di Pace, Luigi Elia and Francesca Martire</i>	247
Transport infrastructure capacity calculations using Green Travelling Planner <i>Ireneusz Celiński, Marcin Staniek and Grzegorz Sierpiński</i>	336
New forms of mobility for an alternative territorial fruition: the rediscovery of tourist foot paths <i>Rocco Papa and Rosa Anna La Rocca</i>	59

<b>Session 3– Hall 1</b> <i>Sustainable Road Construction Practices (16.30-19.00)</i>	<i>Chairman</i> <i>Francesco Canestrari</i>
Environmental and economic assessment of pavement construction and management practices for enhancing pavement sustainability <i>João Santos, Gerardo Flintsch, Adelino Ferreira and Veronique Cerezo</i>	177
Performance evaluation of regenerated HMA with very high RAP content <i>Nelson Andrey Alvarado Patiño, Juan Martinez and Emile Lopez</i>	315
Long term monitoring of half warm mix recycled asphalt containing up to 100%RAP <i>Jose Manuel Lizarraga, Antonio Ramirez, Patricia Diaz, Miguel Martin and Francisco Guisado</i>	160
AllBack2Pave: Towards a sustainable 100% recycling of reclaimed asphalt in road pavements <i>Davide Lo Presti, Gordon Airey, Gaetano Di Mino, Maurizio Di Liberto, Anita Blasl, Gustavo Canon Falla and Frohmut Wellner</i>	56
In-plant production of warm recycled mixtures produced with SBS modified bitumen: a case study <i>Arianna Stimilli, Francesca Frigio, Stefano Sciolette and Francesco Canestrari</i>	71
Re-use in asphalt pavements of fillers from natural stone sawmilling sludge <i>Ezio Santagata, Orazio Baglieri, Lucia Tsantilis, Giuseppe Chiappinelli and Pier Paolo Riviera</i>	227
Assessment of technologies for roadway energy harvesting <i>Sandro Colagrande and Marilia Paterno</i>	12
Climate resilient slope stabilization for transport infrastructures <i>Asif Faiz, Bashir Shah and Faiz Aysha</i>	40
Pervious concrete pavements and vegetated boxes as bio-filters and retention systems of pavement storm water: environmental and engineering performance assessment <i>Marco Bassani, Elena Comino, Maurizio Rosso, Angela Garcia, Roberto Ricci, Federica Bertola, Fulvio Canonico, Luca Tefa and Flavia Giurca</i>	80

<b>Session 4 – Hall 2</b> <i>Transportation Management (11.00-13.00)</i>	<i>Chairman</i> <i>Nicolau Fares Gualda</i>
Air Transport Hinterland in Adriatic and Ionian Region: Equity and Connectivity Matters <i>Olja Čokorilo</i>	<i>invited paper</i>   350
Information provision in public transport: indicators and benchmarking across Europe <i>Miriam Pirra, Marco Diana and Alberto Castro</i>	61
Shared infrastructures: technique and method for an inclusive social valuation <i>Saverio Miccoli, Fabrizio Finucci and Rocco Murro</i>	94
Development and application of national transport model of Croatia <i>Uwe Reiter, Igor Majstorović, Ana Olmeda Clemares and Gregor Pretnar</i>	74
Highway functional classification in CIS countries <i>Valentin Silyanov and Jamshid Sodikov</i>	263

Instability exposure and risk assessment of strategic road corridors in a geomorphologically complex <i>Roberta Pellicani, Ilenia Argentiero and Giuseppe Spilotro</i>	53
Geotechnical Asset Management for Italian Transport Agencies: implementation Principles and Concepts <i>David Stanley, Paolo Mazzanti, Paul Thompson and Darren Beckstrand</i>	186

<b>Session 5 – Hall 2</b> <i>Mobility Planning and Traffic Models (14.00-16.00)</i>	<i>Chairman</i> <i>Panagiotis Papaioannou</i>
Implementing traffic simulation models with aerial traffic survey. <i>Andrea Marella</i>	2
A model to evaluate heavy vehicles effect in motorway traffic flow <i>Raffaele Mauro, Selene Cattani and Marco Guerrieri</i>	24
Evaluating the capability of deterministic and stochastic simulation tools to model oversaturated freeway operations <i>Dusan Jolovic, Soheil Sajjadi, Aleksandar Stevanovic and Peter Martin</i>	317
Genetic algorithm-based calibration of microscopic traffic simulation model for single-lane roundabouts <i>Orazio Giuffrè, Anna Grana, Maria Luisa Tumminello and Antonino Sferlazza</i>	39
A demand based route generation model for transit network design <i>Nurit Olikier and Shlomo Bekhor</i>	202
Automatic calibration of microscopic simulation models for the analysis of urban intersections <i>Sara Oliveira, Luís Vasconcelos and Ana Bastos Silva</i>	95

<b>Session 6 – Hall 2</b> <i>Traffic Management (16.30-19.00)</i>	<i>Chairman</i> <i>Ana Bastos Silva</i>
Assessing sustainability of road tolling technologies <i>Drazenko Glavic, Marina Milenković, Miloš Mladenović, Ana Trpkovic and Marijo Vidas</i>	113
Traffic impact of automated truck platoons in highway exits <i>Rodrigo Mesa-Arango and Aldo Fabregas</i>	118
Traffic flows merging cooperation analysis <i>Dmitry Nemchinov, Pavel Pospelov, Alexandr Mikhaylov, Aleksey Kostsov and Dmitry Martiakhin</i>	268
Speed management in single carriageway roads: speed limit setting through expert-based system <i>Nuno Gregório, Ana Bastos Silva and Alvaro Seco</i>	209
Road route planning for transporting wind turbines in Europe <i>Federico Autelitano, Erika Garilli and Felice Giuliani</i>	180
Sustainable transport-parking policy in travel demand management <i>Davor Brcic, Marko Sostaric and Krešimir Vidović</i>	260
Modelling traffic and ambulance behaviors using microsimulation: the LIFE project <i>Fabio Galatioto, Vittoria Parisi, Ecaterina McCormick and Carl Goves</i>	72

<b>Session 7 – Hall 3</b> <i>Road Geometric Design (11.00-13.00)</i>	<i>Chairman</i> <i>Felice Giuliani</i>
A comprehensive methodology for the analysis of highway sight distance <i>Maria Castro, César De Santos-Berbel and Luis Iglesias</i>	98
A speed model for curves of two-lane rural highways based on continuous speed data <i>Raul Almeida, Luís Vasconcelos and Ana Bastos Silva</i>	96
The method of the friction diagram: new developments and possible applications <i>Pasquale Colonna, Nicola Berloco, Paolo Intini, Antonio Perruccio and Vittorio Ranieri</i>	184

Reference Trajectories of vehicles for road alignment design <i>Giuseppe Cantisani and Giuseppe Loprencipe</i>	43
Solution to a capacity problem using non-conventional intersections <i>Martin Vsetecka, Martin Novak and Tomas Apeltauer</i>	140
Roundabouts: Case study of Croatia <i>Hrvoje Pilko</i>	4
Design vehicles and roundabout safety - review of Croatian design guidelines <i>Šime Bezina, Ivica Stančerić and Saša Ahac</i>	142

<b>Session 8 – Hall 3</b> <i>Road Safety planning and interventions (14.00-16.00)</i>	<i>Chairman</i> <i>Enrico Pagliari</i>
The Influence of road marking, shape of central island, truck apron on total and truck accidents at roundabouts <i>Jwan Kamla, Tony Parry and Andrew Dawson</i>	340
Designing principles of the efficient and safe urban cycling Infrastructure <i>Yuri Trofimenko, Igor Markin and Elena Shashina</i>	286
Pedestrian behaviour in traffic: validation and improvement of pedestrian behaviour scale in Belgrade <i>Boris Antic, Dalibor Pesic, Nenad Milutinovic and Marko Maslac</i>	235
Pedestrian Paths: safety and accessibility for all users <i>Enrico Pagliari and Stefania Balestrieri</i>	283
The influence of pedestrian crossings features on driving behavior and road safety <i>Arianna Bichicchi, Francesco Mazzotta, Claudio Lantieri, Valeria Vignali, Andrea Simone, Giulio Dondi and Marco Costa</i>	89
Loss of life risk due to impacts of boulders on vehicles traveling along a very relevant road <i>Paolo Budetta, Giovanni Forte and Michele Nappi</i>	14
Back-propagation neural networks and generalized linear mixed models to investigate vehicular flow and weather data relationships with crash severity in urban road segments <i>Lorenzo Mussone and Marco Bassani</i>	81

<b>Session 9 – Hall 3</b> <i>Road Safety Management (16.30-19.00)</i>	<i>Chairman</i> <i>Raffaele Mauro</i>
Classification and Recognition Model for the Severity of Road Traffic Accidents <i>Jianfeng Xi, Lincan Wang, Tongqiang Ding and Weifu Sun</i>	301
New features of Tritone a microsimulation model developed for the evaluation of traffic safety performances. <i>Vittorio Astarita, Vincenzo Gallelli, Vincenzo Pasquale Giofrè, Giuseppe Guido, Demetrio Carmine Festa, Teresa luele, Domenico Mongelli, Daniele Rogano, Rosolino Vaiana and Alessandro Vitale</i>	26
Correlation between risk level and operating speed of road section <i>Dario Bellini, Maria Carmela Iaconis and Matteo Rossi</i>	351
A new safety performance index for speed-related crashes <i>Giuseppe Guido, Vittorio Astarita, Alessandro Vitale, Vincenzo Gallelli and Frank Fedel Saccomanno</i>	13
Evaluation method of urban intersection safety under mixed traffic <i>Tao Chen, Mengxue Li, Lin Sun, Bin Chen and Yan Gao</i>	327
Intermediate stage traffic technical solution of prince Branimir Street in Zagreb <i>Miroslav Simun, Sandra Mihalinac and Kazimir Rehlicki</i>	124

Tuesday, April 11, 2017

Session 10 – Hall 1 Railway Design (9.00-11.00)	Chairman <i>Gabriele Malavasi</i>
Risk factors that increased accident severity at US railroad crossings from 2005 to 2015 <i>Essam Dabbour</i>	344
Safety in the III Valico Tunnels <i>Alessandro Focaracci</i>	55
A water curtain-based wayside protection system for tunnel fire safety <i>Gabriele Malavasi, Stefano Terribile, Paola Firmi and Annalisa Pranno</i>	171
Quality and energy evaluation of rail-road terminals by microsimulation <i>Angela Carboni and Francesco Deflorio</i>	25
Decoupling of wheel-rail lateral contact force from wayside measurements <i>Massimiliano Bruner, Daniele Cortis and Gabriele Malavasi</i>	44
An application of the parallel gradation technique to railway ballast <i>Manuela Esposito, Serena Andrisani, Francesco Saverio Capaldo and Bruna Festa</i>	104
Delay estimation on a railway line with smart use of micro-simulation <i>Fabrizio Cerreto, Steven Harrod and Otto Anker Nielsen</i>	157

Session 11 – Hall 1 Railway Maintenance (11.30-13.30)	Chairman <i>Matteo Ignaccolo</i>
Design and maintenance of high speed rail tracks: a comparison between ballasted and ballast-less solutions based on Life Cycle Cost Analysis <i>Marinella Giunta and Filippo Giammaria Praticò</i>	52
The Potentiality of Energy-Efficient Driving Profiles on Railway Consumptions: a Parametric Approach <i>Mariano Gallo, Fulvio Simonelli and Giuseppina De Luca</i>	123
Development, analysis and prediction efficiency of bulk carriers in the world market <i>Stipe Galić, Tatjana Stanivuk and Ana Marušić</i>	166
Efficient practices in railway ballast maintenance and quality assessment using GPR <i>Luca Bianchini Ciampoli, Fabio Tosti, Alessandro Calvi, Morteza Amir Alani and Andrea Benedetto</i>	269
Monitoring of Railway track with light high efficiency systems <i>Salvatore Cafiso, Brunella Capace, Carmelo D'Agostino, Emanuele Delfino and Alessandro Di Graziano</i>	41
Slope hazards and risk engineering in the Canadian railway network through the Cordillera <i>Jorge Luis Rodriguez Navarro, Renato Macciotta Pulisci, Michael Hendry, Tom Edwards and Trevor Evans</i>	86

Session 12– Hall 1 Sustainable Railway Construction Practices (14.30-17.00)	Chairman <i>Agostino Cappelli</i>
The importance of railways for developing countries. The feasibility study for the rehabilitation of the Mchinji to Nkaya rail line in Malawi <i>Antonio Placido, Marco Marchesini and Vincenzo Cerreta</i>	134
Social exclusion and High-Speed Rail: some evidence from three European countries <i>Francesca Pagliara, Luigi Biggiero and Fabrizio Menicocci</i>	3
The relaunch of branch lines as a territory project for the inner areas <i>Francesco Alberti</i>	281

The "form" of railways: between construction and regeneration of contemporary landscape <i>Francesco Viola and Chiara Barbieri</i>	69
Feasibility and preliminary design of a new railway line in the Dolomiti area of Veneto region <i>Marco Pasetto, Giovanni Giacomello, Emiliano Pasquini and Andrea Baliello</i>	57
Secondary or no longer used rail infrastructures: a new tool for the regional railway and land planning <i>Agostino Cappelli, Gabriele Malavasi and Simone Sperati</i>	150
SUP&R ITN: an International training network on sustainable pavements and railways <i>Davide Lo Presti, Maria Carmen Rubio, Paul Marsac and Gordon Airey</i>	35

<b>Session 13 – Hall 2</b> <i>Urban Transport (9.00-11.00)</i>	<i>Chairman</i> <i>Marco Medeghini</i>
Structuring transport decision-making problems through stakeholder engagement: the case of Catania metro accessibility <i>Matteo Ignaccolo, Giuseppe Inturri, Nadia Giuffrida, Michela Le Pira and Vincenza Torrisi</i>	191
Public Transport resilience during emergency: a simulated case in Torino <i>Francesco Deflorio, Hernan Dario Gonzalez Zapata and Marco Diana</i>	67
Tram and light rail transit in modern urban mobility systems <i>Renzo Emili</i>	337
Shaping the future of buses in Europe: outcomes and directions from the EBSF and EBSF_2 projects <i>Maria Vittoria Corazza, Umberto Guida, Antonio Musso and Michele Tozzi</i>	47
The impact of a bus rapid transit line on spatial accessibility and transport equity: the case of Catania <i>Nadia Giuffrida, Giuseppe Inturri, Salvatore Capri, Sebastiano Spica and Matteo Ignaccolo</i>	92
LRT urban tracks. The case of Luas Cross City design and construction in Dublin <i>Marcello Corsi</i>	297
More accessible bus stops: results from the 3iBS research project <i>Maria Vittoria Corazza, Marianne Karlsson and Antonio Musso</i>	46
Which role for tramways in the next years <i>Giovanni Mantovani</i>	352

<b>Session 14 – Hall 2</b> <i>Airport Planning, Design and Management (11.30-13.30)</i>	<i>Chairman</i> <i>Olja Čokorilo</i>
A computational model for aerodrome geometry analyses of conformity to ICAO design standards <i>Evandro José Da Silva and Nicolau D. F. Gualda</i>	87
Modeling airport noise using artificial neural networks and non-linear analysis <i>Mario De Luca, Demetrio Carmine Festa and Giuseppe Guido</i>	7
Airport ground access logit choice models for fixed track systems <i>Ioannis Politis, Georgios Georgiadis and Panagiotis Papaioannou</i>	346
In-depth investigation of runway excursions <i>Natalia Distefano and Salvatore Leonardi</i>	62
A runway veer-off risk assessment based on frequency model: Part I. probability analysis <i>Laura Moretti, Giuseppe Cantisani, Paola Di Mascio, Stefano Nichele and Silvia Caro</i>	341
A runway veer-off risk assessment based on frequency model: Part II. risk analysis <i>Laura Moretti, Giuseppe Cantisani, Paola Di Mascio, Stefano Nichele and Silvia Caro</i>	342
High Modulus Asphalt Concrete for Ljubljana Airport Apron <i>Aleksander Ljubic</i>	9

<b>Session 15 – Hall 2</b> <i>Maritime Transport and Hubs (14.30-17.00)</i>	<i>Chairman</i> <i>Elen Twrdy</i>
Motorways of the sea: an outlook of technological, operational and economic tools <i>Riccardo Gabriele Di Meglio, Silvia Ferrini, Giorgio Mainardi and Ivano Toni</i>	110
Modelling of a multi-agent architecture for power management system on a ship <i>Maja Krcum and Anita Gudelj</i>	241
Analysis of the maritime traffic in the central part of the Adriatic <i>Zvonimir Lušić, Danijel Pušić and Dario Medic</i>	290
Evaluating the competitiveness of transshipment ports in Mediterranean <i>Elen Twrdy and Milan Batista</i>	187
A simulation model for managing port operations <i>Stefano Gori and Marco Petrelli</i>	347
A methodology for evaluating the competitiveness of Ro-Ro services <i>Vittorio Marzano, Andrea Papola and Fulvio Simonelli</i>	343
The optimized project: a new Mediterranean hub-based Ro-Ro network <i>Paolo Fadda, Gianfranco Fancello, Claudia Pani and Patrizia Serra</i>	311
Waterfront and sustainable mobility. The case study of Genoa <i>Pietro Ugolini, Francesca Pirlone, Ilenia Spadaro and Selena Candia</i>	50
Terminal operator <i>Francesca D'Orsi</i>	60

<b>Session 16 – Hall 3</b> <i>Road Performance Management (9.00-11.00)</i>	<i>Chairman</i> <i>Ugo Dibennardo</i>
ANAS quality evaluation management system <i>Eleonora Cesolini, Stefano Oddone and Sonia Gregori</i>	250
Development of a Road Asset Management System in Kazakhstan <i>Guido Bonin, Nicola Folino, Giuseppe Loprencipe, Cesare Oliverio Rossi, Sergio Polizzotti and Bagdat Teltayev</i>	345
The pavement management system for improving airports and roads infrastructures <i>Gianfranco Battiato, Lorenzo Cosimi and Christos Stratakos</i>	273
Finite element modelling of flexible pavement reinforced with geogrid <i>Giovanni Leonardi and Rocco Palamara</i>	320
Functional and durability properties evaluation of open graded asphalt mixes <i>Vanesa María Kolodziej, Glicério Trichês, Jahel Sarvia Ledezma Pérez, Gabriela Ceccon Carlesso, Lucas Martín Jardín and Ramon Mendes Knabben</i>	217
Rolling resistance impact on a road pavement life cycle carbon footprint analysis <i>Laura Trupia, Tony Parry, Luis Canhoto Neves and Davide Lo Presti</i>	106

<b>Session 17 – Hall 3</b> <i>Pavement design (11.30-13.30)</i>	<i>Chairman</i> <i>Ezio Santagata</i>
The use of porous asphalt for the improvement of the grading plan geometry and drainage of pavement surfaces on urban roads <i>Vladan Ilić, Isidora Pančić, Marko Orešković and Dejan Gavran</i>	296
Mix design and volumetric analysis of hot recycled bituminous mixtures using a bio-additive <i>Edoardo Bocci, Fabrizio Cardone and Andrea Grilli</i>	168
Deformation and strength of asphalt concrete under static and step loadings <i>Alibay Iskakbayev, Bagdat Teltayev and Cesare Oliverio Rossi</i>	1



A Big Data approach to assess the Influence of Road Pavement Condition on Truck Fleet Fuel Consumption <i>Federico Perrotta, Luis Canhoto Neves and Tony Parry</i>	17
Research and analysis of dolomite aggregate for resistance to fragmentation <i>Lina Šneideraitienė and Daiva Žilionienė</i>	139
Study on paving factors of stone path in campus based on characteristics of pedestrian walking <i>Yang Yanqun, Huang Qinwei, Xu Meiling and Yu Sheng</i>	312

<b>Session 18 – Hall 3</b> <i>Asphalt Materials and Innovation (14.30-17.00)</i>	<i>Chairman</i> <i>Marco Pasetto</i>
A review of sulfur extended asphalt modifiers – feasibility and limitations <i>Salah Zoorob, Cesare Sangiorgi and Shahin Eskandarsefat</i>	66
Effects of Mineral Fillers on Bitumen Mastic Chemistry and Rheology <i>Alfaqawi R.M., Airey G., Lo Presti D., Grenfell J.</i>	210
Performance improvements of asphalt mixtures by dry addition of polymeric additives <i>Mauro Ranieri, Clara Celauro and Loretta Venturini</i>	101
Dissipated Energy Approach for the Fatigue Evaluation of RAP Asphalt Mixtures <i>Marco Pasetto and Nicola Baldo</i>	349
Rheological characterization of cold bituminous mastics produced with different mineral additions <i>Carlotta Godenzoni, Maurizio Bocci and Andrea Graziani</i>	97
Laboratory investigation into the modification effect of paving bitumen with different plastomeric <i>Edwina Saroufim, Clara Celauro and Nariman Khalil</i>	156
Evaluation of workability of warm mix asphalt through the CDI and air voids <i>Douglas Mocelin, Lelio Brito, Marlova Johnston, Vinicius Alves, Gracieli Colpo and Jorge Ceratti</i>	193

===000===

**Wednesday, April 12, 2017**

<b>Session 19 – Hall 1</b> <i>Human Factors and Driving Behavior (9.00-11.00)</i>	<i>Chairman</i> <i>Stefano Zampino</i>
The relationship between driving risk levels and drivers' personal, physical and emotional characteristics <i>Laura Eboli, Gabriella Mazzulla and Giuseppe Pungillo</i>	90
The relationships between familiarity and road accidents: some case studies <i>Paolo Intini, Pasquale Colonna, Eirin Ryeng, Nicola Berloco and Vittorio Ranieri</i>	185
Personality and driver behaviour questionnaire: correlational exploratory study <i>Joana Dourado, Ana Telma Pereira, Vasco Nogueira, Ana Bastos Silva and Alvaro Seco</i>	107
Identifying driving behaviour profiles by using multiple correspondence analysis and cluster analysis <i>Davide Shingo Usami, Manuel Picardi, Maria Rosaria Saporito, Luca Persia and Isabella Corazziari</i>	137
Risk compensation in a changing road environment <i>Alexandros Oikonomou, Pavlos Tafidis, Pavlos Kyriakidis, Socrates Basbas and Ioannis Politis</i>	230
The effects of the different uses of mobile phones on drivers: experimental tests on an extra-urban road <i>Stefano Zampino</i>	79
An on-ramp metering and speed control application on O1 freeway in Istanbul <i>Hatice Gocmen Demir and Kagan Demir</i>	334

<b>Workshop - Hall 2</b> (9.00-13.30)	<i>GASTone “New powertrain concept based on the integration of energy recovery, storage and re-use system with engine system and control strategies”</i>
---------------------------------------	--

<b>Session 20 – Hall 3</b> <i>Road Data Monitoring</i> (9.00-11.00)	<i>Chairman</i> <i>Francesca Russo</i>
A reading key of motorisation rate trend in Italy <i>Erika Garilli, Federico Autelitano, Felice Giuliani, Amela Guga and Giulio Maternini</i>	178
Analysis of the impact of road networks in urban distribution spatial through dynamic models and multipurpose cadaster <i>Lucas Martín Jardín, Carlos Loch and Vanesa María Kolodziej</i>	214
Research on the method of multi-resource traffic data fusion for the calculation of urban road traffic operation index <i>Song Zeng and Huaikun Xiang</i>	308
On-street parking management: bridging the gap between theory and practice <i>Cristiana Piccioni, Marco Valtorta and Antonio Musso</i>	99
A Study on the influence of parking policy mix on travel model choice behavior within the scope of heterogeneous travel purposes <i>Hai Yan, Mowen Ran and Mengtian Li</i>	294
Using the system DataFromSky to monitor emissions from traffic <i>Vladimír Adamec, Barbora Schullerova, Jiri Pospisil, Adam Babinec and David Herman</i>	190
Multi-objective network design problem considering system time minimization and road safety maximization <i>Inbal Haas and Shlomo Bekhor</i>	205

<b>Session 21 – Hall 1</b> <i>I-BIM Infrastructure Building Information Modeling</i> (15.00-17.00)	<i>Chairman</i> <i>Salvatore Antonio Biancardo</i>
A PSO algorithm for designing 3D highway alignments adopting polynomial solutions <i>Gaetano Bosurgi, Orazio Pellegrino and Giuseppe Sollazzo</i>	243
BIM experience in infrastructural large projects: Doha Metro - Al Jadeda station Al Matar B case study <i>Alfredo Ingletti, Maria Scala and Laura Chiacchiari</i>	272
3D control of obstacles in airport location studies <i>Dejan Gavran, Sanja Fric, Vladan Ilić, Filip Trpcevski and Stefan Vranjevac</i>	174
Building Information Modeling (BIM): prospects for the development of railway infrastructure industry <i>Michele Leone, Antonio D'Andrea, Giuseppe Loprencipe, Gabriele Malavasi and Luca Bernardini</i>	348