



# AIIT 4TH INTERNATIONAL CONFERENCE

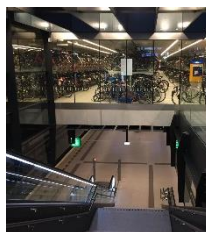
GREENING THE WAY FORWARD: SUSTAINABLE TRANSPORT  
INFRASTRUCTURE AND SYSTEMS

**19TH - 20TH SEPTEMBER 2024, ROME (ITALY)**



**September 19-20, 2024**

**Roma, ACI Building, Via Marsala, 8**



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

# TIS ROMA 2024

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INFRASTRUCTURE AND SYSTEMS

19TH - 20TH SEPTEMBER 2024, ROME (ITALY)

## Program

Thursday, September 19, 2024

8.30-9.00	Registration			
9.00-10.30	Opening Ceremony – Plenary session 1 - Keynote speech - Hall 1			
10.30-11.00	Coffee Break			
11.00-13.00	<i>Session 1 – Hall 1</i> <i>Environmental, social and economic sustainability of transport systems</i>	<i>Session 4 – Hall 2</i> <i>Road Asset Management and Road Safety Management (1)</i>	<i>Session 7 – Hall 3</i> <i>Climate Change mitigation and adaptation strategies</i>	<i>Session 10 – Hall 4</i> <i>Green ports and port-city interaction</i>
13.00-14.00	Lunch			
14.00-16.00	<i>Session 2 – Hall 1</i> <i>Sustainable urban mobility planning</i>	<i>Session 5 – Hall 2</i> <i>Sustainable Road Design, Construction Practices and Management (1)</i>	<i>Session 8 – Hall 3</i> <i>City logistics and urban freight transport (1)</i>	<i>Session 11 – Hall 4</i> <i>Sustainable Railway Design, Construction and Maintenance</i>
16.00-16.30	Coffee Break			
16.30-18.30	<i>Session 3 – Hall 1</i> <i>Shared mobility and mobility on demand</i>	<i>Session 6 – Hall 2</i> <i>Human factors and Driving Simulation Studies for Safer Road Infrastructures</i>	<i>Session 9 – Hall 3</i> <i>Mobility as a Service, AI and big data for transport models and planning</i>	<i>Session 12 – Hall 4</i> <i>Air transport planning and management, Airport Infrastructures and Pavement Management Systems</i>
20.00-22.30	Gala Dinner			



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## Friday, September 20, 2024

9.00-9.30	<i>Registration</i>			
9.30-11.30	<i>Session 13 – Hall 1</i>  <i>Transport policy</i>	<i>Session 16 – Hall 2</i>  <i>Road Asset Management and Road Safety Management (2)</i>	<i>Session 19 – Hall 3</i>  <i>Public transport</i>	<i>Session 22 – Hall 4</i>  <i>Transport infrastructure and systems analysis</i>
11.30-12.00	<i>Coffee Break</i>			
12.00-14.00	<i>Session 14 – Hall 1</i>  <i>City logistics and urban freight transport (2)</i>	<i>Session 17 – Hall 2</i>  <i>Sustainable Road Design, Construction Practices and Management (2)</i>	<i>Session 20 – Hall 3</i>  <i>Multimodal and integrated transport systems</i>	<i>Session 23 – Hall 4</i>  <i>Sustainable Infrastructure Design and Life Cycle Assessment</i>
14.00-15.00	<i>Lunch</i>			
15.00-17.00	<i>Session 15 – Hall 1</i>  <i>Active mobility and micromobility</i>	<i>Session 18 – Hall 2</i>  <i>Safety Strategies for Vulnerable Road Users</i>	<i>Session 21 – Hall 3</i>  <i>Digitalization in transport, Intelligent Transport Systems</i>	-
17.00-18.00	<i>Closing ceremony – Hall 1</i>			
18.00-19.00	<i>Street food aperitif</i>			

## DETAILED PROGRAM

**Thursday, September 19, 2024**

<b>Opening Ceremony – Plenary session 1 - Keynote speech - Hall 1 (9.00-10.30)</b>
<p><b>Welcome address of authorities</b></p> <p><b>Introduction</b>  <i>Enrico Pagliari</i>, Conference Chair, Organizing Committee Coordinator</p> <p><b>Keynote speech:</b> “<i>Navigating the Future: Strengths and Challenges of Emerging Urban Transport Services and Technologies?</i>”  <i>Gonçalo Homem de Almeida Correia</i>, TU Delft, Netherlands</p> <p><b>Conference Overview</b>  <i>Michela Le Pira</i>, Conference Chair, Scientific Committee Coordinator</p>

	<b>Session 1 – Hall 1 (11.00-13.00)</b> <i>Environmental, social and economic sustainability of transport systems</i>	<i>Chairperson</i> <i>Nadia Giuffrida</i>
1	Mariano Gallo	<i>Optimal location of refuelling stations for hydrogen-powered freight vehicles: models, methods and case studies</i>
63	Meenakshi Harikumar, Naveed Marazi, Bandhan Bandhu Majumdar, Prasanta Sahu, Avijit Maji and Sabyasachi Biswas	<i>Investigating the Role of Service Attributes on Shared 3-Wheeler Autorickshaw Operations in India</i>
79	Jack Bradbury and Shohel Amin	<i>Exposure of bicyclists to vehicle emissions at bicycle routes of major roads in the UK cities</i>
85	Graham Parkhurst	<i>Automated urban buses: an application of autonomous vehicle technology on route to sustainable development?</i>
88	Nuhamin Gezehagne Assefa, Martina Carra, Roberto Ventura, Anna Richiedei, Giulio Maternini and Benedetto Barabino	<i>Assessing Tram-Train feasibility via Multicriteria Approach: The Case of Brescia (Italy)</i>
89	Diana Naranjo, Juan Nicolas Gonzalez, Laura Garrido, Thais Rangel and José Manuel Vassallo	<i>Contribution of New Shared Mobility Services on achieving key sustainability goals</i>
184	José María de Ortuzar de Garate and Miguel de Ortuzar de Garate	<i>Tools for addressing the environmental, social and economic sustainability of transport systems in a metropolitan area, and their application to two road case studies in Biscay</i>

<b>Session 2 – Hall 1 (14.00-16.00)</b> <i>Sustainable urban mobility planning</i>		<i>Chairperson</i> <a href="#">Riccardo Ceccato</a>
32	Sina Shaffiee Haghshenas, Giuseppe Guido, Sami Shaffiee Haghshenas, Vittorio Astarita and Vladimir Simic	<i>Evaluating Determinants of Sustainable Urban Transportation Development Using the FAHP Method: A Case Study of Calabria Region, Southern Italy</i>
54	Lambros Mitropoulos, Andreas Nikiforiadis, Katerina Fotiou, Annie Kortsari and Georgia Ayfantopoulou	<i>An accessibility-driven method for planning first and last mile micromobility services</i>
160	Giovanni Calabro', Michela Le Pira, Giuseppe Inturri and Salvatore Cavalieri	<i>Measuring the readiness to become a “30 km/h city”</i>
173	Alessandro Nalin, Margherita Pazzini, Roberto Battistini, Andrea Simone, Valeria Vignali and Claudio Lantieri	<i>Citizen-science approach for an environmental analysis: the case study of university cyclists in Bologna.</i>
174	Simona De Bartolomeo, Michele Ottomanelli and Leonardo Caggiani	<i>An equity parking area location model for the transition from free-floating to station-based shared micromobility systems</i>
198	Atusa Javaheri, Sai Sneha Channamallu, Sharareh Kermanshachi, Jay Michael Rosenberger, Apurva Pamidimukkala, Chen Kan and Greg Hladik	<i>Predictive analysis of parking behavior after implementation of smart parking system</i>
203	Vincenza Torrisi, Pierfrancesco Leonardi and Matteo Ignaccolo	<i>Modeling network-based accessibility to analyze the transport network vulnerability: the case study of Catania (Italy)</i>

<b>Session 3 – Hall 1 (16.30-18.30)</b> <i>Shared mobility and mobility on demand</i>		<i>Chairperson</i> <a href="#">Graham Parkhurst</a>
19	Pavlos Tafidis, Nadia Giuffrida and Francesco Pilla	<i>Empirical Evidence and Policy Insights from Smart Mobility Hubs Implementation for Public Office Staff in Dublin City</i>
20	Sam Reker, Raffaele Alfonsi, Gabriele Giustiniani and Trigaluh Prastyana Tika	<i>The potential of micromobility in the Italian cities of L’Aquila, Palermo, and Florence</i>
43	Eleni Karakitsou, Panagiotis G. Tzouras, Ioannis Chatziioannou and Konstantinos Kepaptsoglou	<i>A first investigation of perceived safety spatial patterns in Athens, Greece</i>
72	Sapan Tiwari, Samarth Ghoslya and Janak Parmar	<i>A Cost-Based Assignment of Demand-Responsive Transportation: A Comparative Study with Public Transportation Alternatives</i>
117	Sapan Tiwari	<i>Analyzing Ride-Hailing Services Utilization in Greater Melbourne: Influences of Service Area and Vehicle Capacity</i>



201	Gabriele D'Orso, Vincenza Torrissi, Pierfrancesco Leonardi, Marco Migliore, Matteo Ignaccolo and Riccardo D'Angelo	<i>Transforming travel experience in low density areas: evidence from a DRT pilot study and simulation model</i>
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<b>Session 4 – Hall 2 (11.00-13.00)</b> <i>Road Asset Management and Road Safety Management (1)</i>		<i>Chairperson</i> <i>Cristina Oreto</i>
15	Manuel De Rose, Joel R.M. Oliveira, Cesare Sangiorgi and Rosolino Vaiana	<i>A study on the development of microsurfacing surface performance under laboratory-scale traffic simulation</i>
25	Salvatore Bruno, Giuseppe Cantisani, Antonio D'Andrea, Paola Di Mascio, Nicola Fiore, Giuseppe Loprencipe, Laura Moretti, Carlo Polidori and Giulia Del Serrone	<i>Innovative Road Repair: Pothole Maintenance through Advanced Robotic Systems</i>
29	Brayan Gonzalez-Hernandez, Sevket Oguz Kagan Capkin, Davide Shingo Usami and Luca Persia	<i>Validation of a simplified road assessment programme methodology</i>
60	Junxiang Xu and Divya Jayakumar Nair	<i>Reevaluating Network Connectivity: The Critical Role of the Relative Size of Largest Connected Component (RSLCC)</i>
82	Giuseppe Cantisani, Paolo Peluso, Andrea Pompigna and Giulia Del Serrone	<i>A GIS-based methodology to observe driver behaviors and infrastructure characteristics through operating speeds</i>
101	Sara Siverio, Benedykt Szozda, Manuel Ponzoni, Giulio Maternini and Benedetto Barabino	<i>Integrating Floating Car Data in a Pavement Management System: Some Empirical Evidence from Brescia (Italy)</i>
105	Eugenio Mariani, Lorenzo Paolo Ingrassia, Renato Angeloni, Lucrezia Gorgoglione, Paolo Clini and Francesco Canestrari	<i>Interpretation of pavement skid resistance based on the advanced analysis of surface texture</i>

<b>Session 5 – Hall 2 (14.00-16.00)</b> <i>Sustainable Road Design, Construction Practices and Management (1)</i>		<i>Chairperson</i> <i>Giuseppe Cantisani</i>
33	Giulia Del Serrone, Paolo Peluso, Stefano Nichele and Laura Moretti	<i>Photovoltaic pavements in urban areas: more benefits or drawbacks?</i>
129	Giulia Del Serrone, Giuseppe Cantisani and Paolo Peluso	<i>"Smart Road" technologies and systems for improving road infrastructure performances</i>
149	Miguel de Ortuzar de Garate and José María de Ortuzar de Garate	<i>The underwater Lamiako tunnel project in Bilbao estuary</i>

166	Vladan Ilić, Dejan Gavran, Sanja Fric, Filip Trpčevski, Stefan Vranjevac, Miloš Lukić and Nikola Milovanović	<i>Addressing aquaplaning challenges on wide motorway pavements: A review of pavement superelevation methods in poorly drained zones</i>
231	Shuvrajit Biswas, Avesh Ali, Gd Ransinchung Rn and Sham S Ravindranath	<i>The effect of basic oxygen furnace steel slag and recycled concrete aggregate on the mechanical properties of asphalt concrete</i>
234	Galileo Tamasi, Graziano Tabelli, Stefano Zampino, Emanuele Renzi, Vincenzo Porretto and Nicola Sacco	<i>A methodology for the analysis of Safety Management Systems for road infrastructures and related analysis following road accidents near road construction sites</i>
238	Rosa Veropalumbo, Cristina Oreto, Nunzio Viscione, Francesca Russo and Camilla Consalvo	<i>Effects of marine microplastics on the mechanical, chemical and environmental performance of bituminous binder for road asphalt pavements</i>

<b>Session 6 – Hall 2 (16.30-18.30)</b> <i>Human factors and Driving Simulation Studies for Safer Road Infrastructures</i>		<i>Chairperson</i> <b>Stefano Zampino</b>
65	Antonios Trakakis, Konstantinos Apostoleris, Basil Psarianos and Stergios Mavromatis	<i>Speed on European Interchange Ramps: A Completed Correlation among Greek, Dutch &amp; Russian Drivers</i>
119	Natalia Distefano and Salvatore Leonardi	<i>Sustainable Mobility: A Comparative Analysis of Vehicle Interactions Involving Cars, E-Scooters, and Bicycles at Urban Intersections</i>
144	Stefano Zampino and Francesca Zampino	<i>Use of mobile devices and hands-free technologies: state of the art and insights into drivers' behaviour</i>
162	Alessandro Calvi, Fabrizio D'Amico and Andrea Vennarucci	<i>A Novel Co-Simulation Platform for Driving Performance Evaluation of Various Road Users</i>
172	Giovanni Bruno, Paolo Lorenzini, Elisa Gambaretto, Alberto Portera, Francesco Angioi and Andrea Spoto	<i>Driving behaviors in immersive Virtual Environments: a study on the role of cognitive workload, sense of presence and simulation sickness in the CAVE laboratory.</i>
210	Xoliswa E. Feikie and Jacob Adedayo Adedeji	<i>The Significance of Informal Communication for Road User Safety from Pedestrians' Perspective</i>

<b>Session 7 – Hall 3 (11.00-13.00)</b> <i>Climate Change mitigation and adaptation strategies</i>		<i>Chairperson</i> <i>Silvio Nocera</i>
11	Cristina Bircu, Francesco Bruzzone, Federico Cavallaro, Alessandro Indelicato and Silvio Nocera	<i>Reducing road congestion and air pollution with ICT-based platooning</i>
28	Luca D'Acierno, Luca De Matteis and Rosario Stefanelli	<i>Adoption of hydrogen in railway traction: Opportunities and limits in the case of non-electrified railway lines</i>
58	Funda Ture Kibar, Yakup Betus and Hediye Tuydes-Yaman	<i>Defining Transportation Systems Resilience under Natural Disasters: a bibliometric analysis based on mode, metrics, and scope</i>
155	Angela Carboni and Itir Coskun	<i>Methods for assessing the role of traffic management in mitigating the environmental impacts of urban road transport: an overview</i>
178	Mirjana Grdinić Rakonjac and Marko Lučić	<i>Electric vehicle selection with easy applicable MCDM methods</i>
208	Paolo Lazzeroni and Angela Carboni	<i>Investigating smart charging options for EVs in multi-family residential buildings</i>
239	Cristina Oreto, Rosa Veropalumbo, Nunzio Viscione, Francesca Russo and Giuseppe D'Addio	<i>Environmental sustainability of recycling alternative secondary aggregates for cold recycled binder layers of road asphalt pavements</i>

<b>Session 8 – Hall 3 (14.00-16.00)</b> <i>City logistics and urban freight transport (1)</i>		<i>Chairperson</i> <i>Rodrigo Tapia</i>
14	Ish Kumar, Lakshman R and Bhaskar Gowd Sudagani	<i>Impact of Truck Access Restrictions on Freight Operations and Driver Quality of Life in Urban India</i>
30	Bhavani Shankar Balla, Prasanta Sahu and Agnivesh Pani	<i>A Model Typology Approach for Improving Spatial Transferability of Freight Demand Estimates: Case Study of Geographically Dissimilar Regions in India</i>
78	Salar Salehi, Ken Koshy Varghese, Lory Michelle Bresciani Miristice and Guido Gentile	<i>Path Choice Calibration Across Urban Road Networks using Routing Services</i>
95	Daniela Castaño Herrera, Juan Gomez, Lucía Tapiador, Jose Manuel Vassallo and Laura Garrido	<i>Connecting Purchases and Mobility: How does E-commerce impact people's mobility habits?</i>
99	Patricija Bajec, Halyna Pivtorak and Libor Svadlenka	<i>Research on Last-Mile Crowdshipping: Identification of Barriers and Enablers Impacting Willingness-To-Work as a crowdshipper Across Diverse Groups and Countries</i>

146	Tiziana Campisi, Antonio Russo, Socrates Basbas, Efstathios Bouhouras and Giovanni Tesoriere	<i>Walkability and pick-up points in the Catania Metropolitan Area, Italy: Lessons learned</i>
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<b>Session 9 – Hall 3 (16.30-18.30)</b> <i>Mobility as a Service, AI and big data for transport models and planning</i>		<i>Chairperson</i> <i>Fabio Borghetti</i>
46	Camille Vedel, Stefano Fraire and Marco De Divitis	<i>MaaS, a switch from vertical and fragmented system to an integrated ecosystem</i>
76	Marco Petrelli, Gemma Andrea, Livia Mannini and Alessandra Renna	<i>In depth analysis of the speed limits in the road network of Lazio region</i>
118	Roberto Ventura, Giulio Maternini, Alessandro Olivo, David Vetturi and Benedetto Barabino	<i>Comparing Econometric and Machine Learning Models for Predicting Fare Evasion Frequency: A Case Study in Cagliari (Italy)</i>
135	Vittorio Astarita, Sami Shaffiee Haghshenas, Sina Shaffiee Haghshenas, Giuseppe Guido and Giulia Martino	<i>A Bibliometric-Based Literature Review on Artificial Intelligence in Disaster Response</i>
199	Hao Wang, Sai Sneha Channamallu, Sharareh Kermanshachi, Jay Michael Rosenberger, Apurva Pamidimukkala, Chen Kan and Greg Hladik	<i>Economics of smart parking: predictive analytics in optimizing urban parking revenue</i>
218	Francesco Piras, Eleonora Sottile, Italo Meloni and Alice Scalas	<i>Drivers and barriers of Mobility-as-a-Service: insights from stakeholders of a middle-size Italian city</i>
229	Corrado Rindone and Antonino Vitetta	<i>Mobility as a Service towards sustainability: pilot experiments and user choice analysis</i>

<b>Session 10 – Hall 4 (11.00-13.00)</b> <i>Green ports and port-city interaction</i>		<i>Chairperson</i> <i>Elen Twrdy</i>
12	Fabio Hector Echeverry Andrade, Ruth Garcia-Llave and Ciro Jaramillo Molina	<i>The threat of illegal drug trafficking in European ports: meta-analysis of 22 case studies.</i>
152	Guruviswas Jbv, Sujoy Sarkar, Naina Gupta, Pavan Kumar Machavarapu and Sridharan N	<i>Enhancing port performance assessment through new performance indicators and MCDM techniques</i>
158	Elena Cocuzza, Michela Le Pira, Matteo Ignaccolo and Giuseppe Inturri	<i>Towards a sustainable governance of port systems and port cities: a stakeholder engagement approach</i>
171	Antonio Polimeni and Orlando Marco Belcore	<i>Methods for evaluation of factors affecting time of ships in container ports: analysis of relevant attributes</i>
189	Francesco Russo and Giuseppe Musolino	<i>Methods for the evaluation of factors affecting port generations</i>
213	Claudia Caballini, Antonio Russo, Erika Olivari and Tiziana Campisi	<i>The evolution of maritime passenger transport in the LigurianTyrrhenian basin of Italy: some considerations regarding their centrality</i>
216	Elena Cocuzza, Elen Twrdy and Matteo Ignaccolo	<i>Analysis of the Eastern Sicilian Sea Port System</i>

<b>Session 11 – Hall 4 (14.00-16.00)</b> <i>Sustainable Railway Design, Construction and Maintenance</i>		<i>Chairperson</i> <i>Ignacio Villalba Sanchis</i>
2	Ignacio Villalba Sanchis, Adrián Márquez Castellano, Ricardo Insa Franco, Pablo Martínez Fernández and Pablo Salvador Zuriaga	<i>DEM analysis of track ballast layer on turnouts: Insights into mechanical behavior and performance optimization</i>
24	Siva Sai Hoshitha Tanimki, Stefano Ricci and Chandra Sekhar Rao Tanimki	<i>Performance Evaluation of Geopolymer Concrete for Railway Superstructure Applications</i>
163	Corrado Rindone and Antonio Russo	<i>Intermediate results for railway capacity evaluation: a network analysis for HSR services in the south of Italy</i>
167	Francesco Russo, Domenico Sgro and Giuseppe Musolino	<i>Modelling dynamic structures of fares in high-speed rail market</i>
186	Francesco Russo, Giuseppe Musolino and Marialuisa Moschella	<i>High-Speed Rail travel demand analysis: pilot experimentation on generation model</i>
227	Aldo La Placa, Francesco Benelli, Giovanni Bianchi, Francesco Freddi and Felice Giuliani	<i>Behaviour of supported and unsupported insulated rail joint under different preload conditions</i>
237	Marco Pasetto and Giovanni Giacomello	<i>Design Alternatives Assessment for the Ground Consolidation Under a Railway Line Embankment in Italy</i>

<b>Session 12 – Hall 4 (16.30-18.30)</b> <i>Air transport planning and management, Airport Infrastructures and Pavement Management Systems</i>		<i>Chairperson</i> <i>Alessandro Di Graziano</i>
17	Zvonimir Rezo, Sanja Steiner, Andrea Tikvica and Dario Fikleš	<i>Aircraft Engine Emissions Reporting Information System Validation</i>
22	Olja Čokorilo, Srdjan Čokorilo and Lidija Tomić	<i>A framework for aviation security</i>
104	Stefano Nichele, Laura Moretti and Paola Di Mascio	<i>Statistical analysis of lateral deviation of aircraft landings on a non-instrumental runway</i>
132	Alessandro Di Graziano, Eliana Ragusa, Giuseppina Pappalardo and Emanuele Delfino	<i>BIM Integrated Airport Pavement Management System</i>
168	Tiziana Campisi, Luigi Sanfilippo, Alberto Brignone, Giovanni Tesoriere and Muhammad Ahmad Al-Rashid	<i>Monitoring and comparing traffic data for the improvement of airport landside accessibility: the Fontanarossa-Catania case study</i>
190	Ruggero Pinto, Luca Bianchini Ciampoli and Andrea Benedetto	<i>Digital management of airport pavement: preliminary achievements on apron areas</i>

## Friday, September 20, 2024

<b>Session 13 – Hall 1 (9.30-11.30)</b>		<i>Chairperson</i>
<i>Transport policy</i>		<i>Giovanni Calabrò</i>
7	Fulvio Morgese, Nadia Giuffrida and Michele Ottomanelli	<i>Analysis of bike-friendly services for sustainable tourism: the case of Apulia region</i>
47	Romain Noël and Alex Coiret	<i>Application of the Lattice Boltzmann Method to estimate road capacity decrease depending on lane number and flow density</i>
73	Andrea Rosa, Stefania Mauro and Serena Cecere	<i>Stakeholders mapping for promoting road-to-rail modal shift of freight transport</i>
124	Yuri Calleo, Nadia Giuffrida, Michela Le Pira and Francesco Pilla	<i>From spatial to visual outputs: Adopting Real-Time Spatial Delphi and Text-to-Image models for safe school zones</i>
157	Elisabetta Venezia	<i>The elderly mobility and sustainable development goals: composite indicators for European countries</i>
200	Irina Di Ruocco and Alessio D'Auria	<i>The HSR Naples-Bari as a driver for sustainable rural development of the internal areas between Campania and Puglia.</i>
232	Apurva Pamidimukkala, Sharareh Kermanshachi, Jay Michael Rosenberger and Greg Hladik	<i>An Empirical Examination of Factors Affecting Adoption of Alternative Fuel Vehicles</i>

<b>Session 14 – Hall 1 (12.00-14.00)</b>		<i>Chairperson</i>
<i>City logistics and urban freight transport (2)</i>		<i>Patricija Bajec</i>
59	Ish Kumar and Chidambara Chidambara	<i>A Comparative Evaluation of Freight Strategies for Online Business Models in Delhi: A Fuzzy AHP and TOPSIS Approach</i>
96	Daniel Mark Vitiello, Patrizia Serra and Gianfranco Fancello	<i>Assessing greenhouse gas emissions arising from intermodal freight transport chains using the ISO14083 standard</i>
126	Michela Le Pira, Nadia Giuffrida, Rodrigo Tapia, Lóránt Tavasszy, Gonçalo Correia, Francesco Pilla, Matteo Ignaccolo and Giuseppe Inturri	<i>Exploring the feasibility of Mobility as a Service (MaaS) for integrated passenger and freight transport through a Delphi survey</i>
193	Daniel Quiter, Maximilian Engelhardt, Birte Malzahn and Stephan Seeck	<i>Best practices for implementing sustainable urban logistics – the case of freight consolidation for a Berlin industrial area</i>

209	Rodrigo Tapia, Lori Tavasszy, Valerio Gatta, Edoardo Maruccci and Mateo Snoeijsbos	<i>Designing an Urban Logistics Living Lab. Experiences from The Hague and Rome</i>
242	Snežana Tadić, Ljubica Radovanović, Mladen Krstić, Olja Čokorilo and Miloš Veljović	<i>Evaluating barriers to drone application in rural areas</i>

<b>Session 15 – Hall 1 (15.00-17.00)</b> <i>Active mobility and micromobility</i>		<i>Chairperson</i> <i>Anna Contenti</i>
5	Letizia Appolloni, Maria Vittoria Corazza and Daniela D'Alessandro	<i>Improving Walkability for Sustainable Mobility and Urban Regeneration in Rome</i>
21	Rosita De Vincentis, Stefano Carrese, Livia Mannini, Marialisa Nigro, Simone Sportiello, Roberto Capua and Marco Giangolini	<i>Analysis of e-scooters' trajectories in real driving environments</i>
42	Sevket Oguz Kagan Capkin, Luca Persia, Davide Shingo Usami and Brayan Gonzalez-Hernandez	<i>Impacts of COVID-19 on urban mobility towards exploring micro-mobility trends in Rome</i>
75	Anna Psarra, Aristomenis Kopsacheilis and Ioannis Politis	<i>A dynamic pedestrian to infrastructure scheme around metro areas. A traffic microsimulation study in Thessaloniki, Greece.</i>
191	Antonella Nardin, Stefano Carrese, Marialisa Nigro and Fabio D'Andreagiovanni	<i>And then there were three: GIS-based analysis of the new three-operator-only e-scooter sharing system of Rome, Italy</i>
219	Michela Le Pira, Matteo Ignaccolo, Giuseppe Inturri and Elena Cocuzza	<i>Innovative solutions to promote sustainable micromobility: insights from a literature review within the IN-MOB project</i>
225	Ana Trpković, Predrag Živanović, Sreten Jevremović, Eleni Anoyrkati and Vladislav Maraš	<i>Active Mobility Potentials for Tackling Youth Post-Pandemic Inactivity</i>



<b>Session 16 – Hall 2 (9.30-11.30)</b> <i>Road Asset Management and Road Safety Management (2)</i>		<i>Chairperson</i> <i>Patrizia Serra</i>
139	Steffel Ludivin Tezong Feudjio, Stephen Kome Fondzenyuy, Elvis Chia Ngwah, Jean François Wounba, Davide Shingo Usami and Luca Persia	<i>Traffic Conflict Approach in Road Safety: A Review of Data Collection Methods</i>
161	Michele Pinna, Gianfranco Fancello and Patrizia Serra	<i>An integrated Road safety analysis for urban and suburban black spots localization</i>
180	Tevoh Lordswill Ndingwan, Jean François Wounba, Stephen Kome Fondzenyuy, Steffel Ludivin Feudjio Tezong, Rita Awasiri Ndonue, Davide Shingo Usami and Luca Persia	<i>Assessment and countermeasures selection for safer roads to schools in the city of Yaoundé: progressive evaluation using surveys and iRAP methodology</i>
195	Erika Garilli, Federico Autelitano and Felice Giuliani	<i>The Parma University Campus as major trip attractor. Traffic microsimulation for modelling vehicle access scenarios.</i>
235	Galileo Tamasi, Graziano Tabelli, Stefano Zampino, Emanuele Renzi, Giuseppe Palermo, Luca Conticini, Stefano Grimaz, Petra Malisan, Fabio Zorzini and Enrico Del Pin	<i>VISIVIA research project: set-up of the VISIT (Visual Inspection for Safety-deficit Identification and Triage) methodology and use of equipped vehicles for inspection of existing roads</i>
236	Galileo Tamasi, Graziano Tabelli, Stefano Zampino, Emanuele Renzi, Erika Garusi, Giuseppe Orsini, Stefano Grimaz, Petra Malisan, Fabio Zorzini and Enrico Del Pin	<i>Inspection of existing tunnels: development of an innovative methodology and use of special equipment for technical triage.</i>
240	Stefano Raccagni, Roberto Ventura, Giulio Maternini and Benedetto Barabino	<i>Effects of road characteristics on operating speed along the urban road network of Brescia (Italy)</i>

<b>Session 17 – Hall 2 (12.00-14.00)</b> <i>Sustainable Road Design, Construction Practices and Management (2)</i>		<i>Chairperson</i> <i>Luigi Di Matteo</i>
48	Marinella Giunta and Giovanni Leonardi	<i>Data-driven track geometry defects localization and strategies for preventive maintenance: a case study</i>
53	Daniele Soraggi and Gabriele Ivano D'Amato	<i>Meet me halfway. Genoese infrastructure agenda: between construction and renovation.</i>
62	Salvatore Antonio Biancardo, Mattia Intignano, Francesco Abbondati, Francesca Di Fonzo, Carlo Gualtieri and Gianluca Dell'Acqua	<i>Rainwater drainage systems solutions for safer transport infrastructures</i>

77	Mohammad Abbasi, Alice Consilvio, Israel Alejandro Hernández-González, Paula Lopez Arevalo and Hamidreza Alavi	<i>On supporting traffic management decisions according to bridges structural health monitoring within a digital twin-oriented platform</i>
94	Salvatore Bruno, Antonello De Amicis, Giuseppe Loprencipe, Simone Orlandini, Gianmarco Rotondi and Lorenzo Vita	<i>Advancing Road Infrastructure: Cross-Slope Analysis of Road Sections Using a Mobile Mapping System (MMS)</i>
110	Alessandro Corradini, Gianluca Cerni and Pier Riccardo Porceddu	<i>Study on skid resistance of road pavements contaminated by soil fine particles</i>
175	Alessandro Marradi, Chiara Mignini, Alessandro Friani, Arianna Stimilli and Tullio Caraffa	<i>Damage evolution assessment of innovative sustainable semi-flexible pavements through Accelerated Pavement Testing</i>

<b>Session 18 – Hall 2 (15.00-17.00)</b> <i>Safety Strategies for Vulnerable Road Users</i>		<i>Chairperson</i> <i>Victoria Gitelman</i>
8	Nicholas Fiorentini and Massimo Losa	<i>Evaluating Risk Factors of Severe Crashes on Italian Urban Roads through novel Safety Performance Function and Crash Modification Factors</i>
68	Victoria Gitelman	<i>Evaluating the safety effects of infrastructure measures on non-urban roads, in Israel</i>
86	Vittorio Ranieri, Nicola Berloco, Stefano Coropulis, Paolo Intini, Margherita Pazzini, Claudia Brasile, Valeria Vignali and Andrea Simone	<i>Exploring relationships between crash patterns and vehicle fleet age: are there empirical evidences in favour of partial driving automation?</i>
106	Davide Shingo Usami, Brayan Gonzalez Hernandez and Luca Persia	<i>Road safety capacity building in Cameroon: train-the-trainers approach</i>
123	Irena Ištoka Otković, Aleksandra Deluka-Tibljaš, Sanja Šurdonja and Tiziana Campisi	<i>Analysis of influencing parameters on children's crossing speeds at non-signalized crosswalks using neural network models</i>
128	Julia Maria Slowy, Edoardo Mazzia, Raffaele Alfonsi and Trigaluh Prastyana Tika	<i>A human rights-based approach for promotion of inclusive and safe urban transport – Case study of Integrated Corridor Management (ICM) Dhaka North Project in Bangladesh</i>

<b>Session 19 – Hall 3 (9.30-11.30)</b> <i>Public transport</i>		<i>Chairperson</i> <i>Marco Medeghini</i>
37	Gino D'Ovidio, Maximilian Di Pasquale and Lorenzo Mario D'Angelo	<i>A novel approach operative-TCO based to assess the LPT company costs of hydrogen-fueled buses use</i>
50	Maria Vittoria Corazza and Matthew Robinson	<i>Best practice for water management and saving for bus operators</i>
83	Alessandro Nalin, Andrea Simone, Luca Bellinato, Valeria Vignali and Claudio Lantieri	<i>GIS-based analysis to locate electric vehicle charging stations in an urban environment: a case study in Bologna, Italy</i>
116	Fabio Borghetti, Beatrice Bianchini, Andrea Strada and Michela Le Pira	<i>Can tramways be used for freight transport in urban areas? A case study in the city of Milan in Italy</i>
159	Nimish Laddha, Dr.Prasanth Vardhan and Dr. Pavan Kumar Machavarapu	<i>Innovative Urban Planning: A Heuristic Approach Using the Simulated Annealing Algorithm to Optimize the Land Use Allocation for Enhancing Public Transportation Ridership</i>
169	Isabel Santoro, Fabio Borghetti, Elena Ratto and Stefano Rossi	<i>How to measure the impact of electronic ticketing systems in local public transport? An Italian case study</i>
182	Michelangelo Fusi and Michela Tiboni	<i>The new tram renaissance in Italy: an evaluation from an urbanistic perspective</i>

<b>Session 20 – Hall 3 (12.00-14.00)</b> <i>Multimodal and integrated transport systems</i>		<i>Chairperson</i> <i>Elena Cocuzza</i>
18	Giuseppe Salvo, Alessandro Emilio Capodici and Luigi Sanfilippo	<i>Multimodality between micromobility and public transport services: different policies and practices in European cities</i>
36	Valentina Costa and Ilaria Delponte	<i>From stand-alone local accessibility enablers to integrated first-mile solutions: the role of DRT services within Beigua-SOL and Arroscia Valley Ligurian Internal Areas.</i>
55	Eleni Kougia, Christos Karolemeas, Panagiotis Tzouras, Lambros Mitropoulos and Konstantinos Kepaptsoglou	<i>Modeling the spatial variability of the willingness to use carsharing services in urban areas</i>
67	Valentina Costa, Federico Campanini and Ilaria Delponte	<i>Shared practices and experiences of University Mobility Management. Exploring scalability at the municipal level</i>
87	Annalisa Zoli, Margherita Pazzini, Valeria Vignali, Andrea Simone, Massimo Gaspardo Moro, Katia Raffaelli and Claudio Lantieri	<i>Users' preferences on bike-train intermodality: what can induce travelers to use this type of intermodal transport?</i>

130	Pietro Manenti, Fabio Borghetti, Laura Ferretto and Benedetto Barabino	<i>How to promote and implement Mobility as a Service? An Italian survey to learn about the propensity of users</i>
228	Giuseppe Musolino and Francesco Russo	<i>Mobility as a Service towards sustainability: pilot experiments and evaluation methods</i>

<b>Session 21 – Hall 3 (15.00-17.00)</b> <i>Digitalization in transport, Intelligent Transport Systems</i>		<i>Chairperson</i> <i>Michela Bonera</i>
38	Carla Giaume, Sofia Pechin, Tito Stefanelli and Cosimo Chiffi	<i>Urban Vehicle Access Regulation As A Mean To Improved Accessibility And Quality Of Life</i>
52	Zahra Lahijanian, Natalia Isaenko, Gaetano Fusco and Chiara Colombaroni	<i>Empirical Analysis of Traffic Patterns: Leveraging Machine Learning Techniques for In-Depth Insights</i>
151	Francesco Deflorio, Angela Carboni, Federica Cossu and Francesco Ciro Scotto	<i>Observing user perception and usage of ADAS from a survey in Italy</i>
179	Sai Sneha Channamallu, Sharareh Kermanshachi, Jay Michael Rosenberger, Apurva Pamidimukkala and Greg Hladik	<i>Cluster-based analysis of parking satisfaction and strategies</i>
202	Deema Nabeel Almaskati, Apurva Pamidimukkala, Sharareh Kermanshachi, Jay Michael Rosenberger and Ann Foss	<i>A review of first responders and autonomous vehicles</i>
204	Vincenza Torrisi, Giovanni Calabrò, Giuseppe Inturri, Salvatore Cavalieri and Matteo Ignaccolo	<i>Exploring the reliability of Floating Car Data (FCD) for traffic prediction applications</i>

<b>Session 22 – Hall 4 (9.30-11.30)</b> <i>Transport infrastructure and systems analysis</i>		<i>Chairperson</i> <i>Enrico Pagliari</i>
71	Masoud Saljoqi, Riccardo Ceccato, Gregorio Gecchele, Riccardo Rossi and Massimiliano Gastaldi	<i>Network-level analysis of the effects of drivers' preferences toward driving behavior of Automated Vehicles: a microsimulation study on a highway segment</i>
136	Stefano Zampino, Luca Conticini, Alfonso Montella and Maurizio Mancinetti	<i>A Procedure for Network Wide Road Safety Assessment in Italy</i>
214	Nadia Giuffrida, Salvatore Viscio and Mario Binetti	<i>State of the art on mapping tools in the context of CCAM and Smart Infrastructure</i>
223	Enrico Pagliari, Stefania Balestrieri and Mariano Iervolino	<i>A new methodology based on Artificial Intelligence for road infrastructure monitoring, with a special focus on pedestrian crossings</i>
233	Sai Sneha Channamallu, Deema Almaskati, Sharareh Kermanshachi and Apurva Pamidimukkala	<i>Machine Learning Insights into AV Crash Dynamics: Predicting Injury Outcomes</i>
241	Giovanni Mantovani	<i>The Tram Renaissance in Rome, 1983 - 2024</i>

<b>Session 23 – Hall 4 (12.00-14.00)</b> <i>Sustainable Infrastructure Design and Life Cycle Assessment</i>		<i>Chairperson</i> <i>Luca Tefa</i>
13	Beatrice De Pascale, Piergiorgio Tataranni, Alessandra Bonoli and Claudio Lantieri	<i>A Comparative life cycle-based decision-making framework for road pavement structures incorporating recycled and artificial aggregates.</i>
34	Giulia Del Serrone, Gennaro Riccio and Laura Moretti	<i>Life cycle assessment of prestressed concrete railway sleepers</i>
230	Gabriella Buttitta, Ana Jimenez del Barco Carrion, Joao Santos, Salvatore Antonio Biancardo and Davide Lo Presti	<i>Implementing Life Cycle Management of road pavements in Europe</i>
74	Salvatore Bruno, Cristiano Fustaino, Giuseppe Loprencipe and Lorenzo Vita	<i>Comprehensive Analysis of Adherence in Stone Pavements</i>
81	Maria Luisa Tumminello, Nazanin Zare, Elżbieta Macioszek, Anna Granà and Tullio Giuffrè	<i>Towards smart and sustainable road intersection design embedding connected, cooperative and automated vehicles</i>
226	Griselda López Maldonado, David Llopis-Castelló, Sara Moll Montaner and Víctor Manuel Ramos Meléndez	<i>Analysis of the relationship between road geometric design and disengagements in SAE2 level vehicles</i>



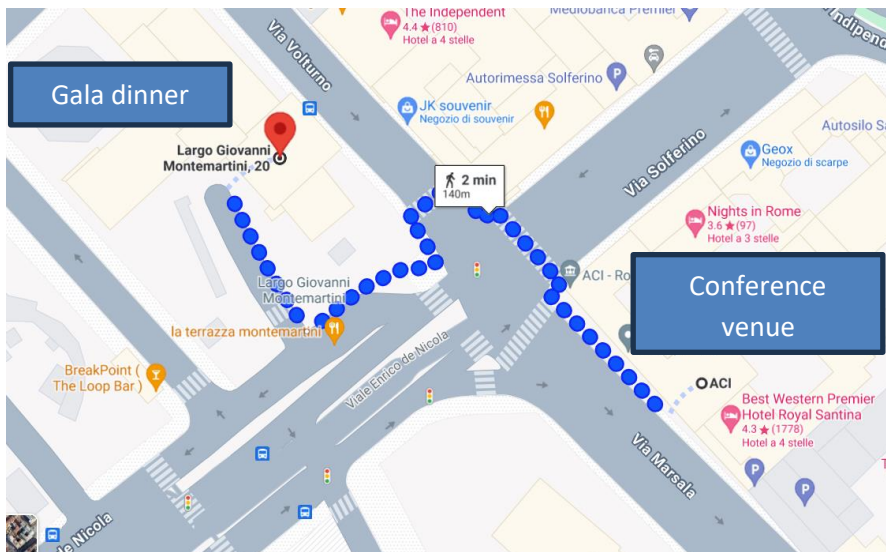
## Gala Dinner

Thursday, September 19, 2024

at “Palazzo Montemartini”



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