

## **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









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## **AIIT 4TH INTERNATIONAL CONFERENCE**

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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 |   | Coffe   | e Break  |   |
| 11.00-13.00 | Session 1 – Hall 1 Environmental, social and economic sustainability of transport systems | Session 4 – Hall 2<br>Road Asset<br>Management<br>and Road Safety<br>Management (1)             | Session 7 – Hall 3<br>Climate Change<br>mitigation and<br>adaptation<br>strategies | Session 10 – Hall 4  Green ports and port-city interaction                    |
| 13.00-14.00 |   | Lu  | ınch   |   |
| 14.00-16.00 | Session 2 – Hall 1  Sustainable urban mobility planning                                   | Session 5 – Hall 2 Sustainable Road Design, Construction Practices and Management (1)           | Session 8 – Hall 3  City logistics and urban freight transport (1)                 | Session 11 – Hall 4  Sustainable Railway Design, Construction and Maintenance |
| 16.00-16.30 |   | Coffe   | e Break  |   |
| 16.30-18.30 | Session 3 – Hall 1  Shared mobility and mobility on demand                                | Session 6 – Hall 2  Human factors and Driving Simulation Studies for Safer Road Infrastructures | Mobility as a Service, Al and hig data for   |   |
| 20.00-22.30 | Gala Dinner   |   |  |   |



## **AIIT 4TH INTERNATIONAL CONFERENCE**

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# Friday, September 20, 2024

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

### DETAILED PROGRAM

## Thursday, September 19, 2024

**Opening Ceremony – Plenary session 1 - Keynote speech - Hall 1** (9.00-10.30)

Welcome address of authorities Introduction

Enrico Pagliari, Conference Chair, Organizing Committee Coordinator

**Keynote speech:** "Navigating the Future: Strengths and Challenges of Emerging Urban Transport Services and Technologies"
Gonçalo Homem de Almeida Correia, TU Delft, Netherlands

### **Conference Overview**

Michela Le Pira, Conference Chair, Scientific Committee Coordinator

| Sessi | on <b>1 – Hall 1</b> (11.00-13.00)   | Chairperson                                    |
|-------|--------------------------------------|--|
| Envir | onmental, social and economic        | Nadia Giuffrida                                |
| susta | inability of transport systems       |  |
| 1     |                                      | Optimal location of refuelling stations for    |
|       | <u>Mariano Gallo (R)</u>             | hydrogen-powered freight vehicles: models,     |
|       |                                      | methods and case studies                       |
| 79    | lack Bradhury and Chahal Amin        | Exposure of bicyclists to vehicle emissions at |
|       | Jack Bradbury and <u>Shohel Amin</u> | bicycle routes of major roads in the UK cities |
| 85    | <u>Graham Parkhurst</u>              | Automated urban buses: an application of       |
|       |                                      | autonomous vehicle technology on route to      |
|       |                                      | sustainable development?                       |
| 88    | Nuhamin Gezehagne Assefa,            | Assessing Tram-Train feasibility via           |
|       | Martina Carra(R), Roberto Ventura,   | Multicriteria Approach: The Case of Brescia    |
|       | Anna Richiedei, Giulio Maternini and | (Italy)  |
|       | Benedetto Barabino                   | (italy)  |
| 89    | <u>Diana Naranjo</u> , Juan Nicolas  | Contribution of New Shared Mobility Services   |
|       | Gonzalez, Laura Garrido, Thais       | on achieving key sustainability goals          |
|       | Rangel and José Manuel Vassallo      | on achieving key sustainability goals          |
| 184   |                                      | Tools for addressing the environmental, social |
|       | José María de Ortuzar de Garate and  | and economic sustainability of transport       |
|       | Miguel de Ortuzar de Garate          | systems in a metropolitan area, and their      |
|       |                                      | application to two road case studies in Biscay |

| Sessi | on 2 – Hall 1 (14.00-16.00)  | Chairperson  |
|-------|--|--|
|       | ninable urban mobility planning  | Riccardo Ceccato   |
| 32    | Sina Shaffiee Haghshenas, Giuseppe<br>Guido, Sami Shaffiee Haghshenas,<br>Vittorio Astarita and Vladimir Simic                                       | Evaluating Determinants of Sustainable Urban Transportation Development Using the FAHP Method: A Case Study of Calabria Region, Southern Italy |
| 54    | Lambros Mitropoulos, Andreas<br>Nikiforiadis, Katerina Fotiou, <u>Annie</u><br><u>Kortsari</u> and Georgia Ayfantopoulou                             | An accessibility-driven method for planning first and last mile micromobility services   |
| 124   | Yuri Calleo, Nadia Giuffrida, Michela<br>Le Pira and Francesco Pilla   | From spatial to visual outputs: Adopting<br>Real-Time Spatial Delphi and Text-to-Image<br>models for safe school zones                         |
| 160   | <u>Giovanni Calabrò</u> , Michela Le Pira,<br>Giuseppe Inturri and Salvatore<br>Cavalieri  | Measuring the readiness to become a "30 km/h city"   |
| 173   | Alessandro Nalin, <u>Margherita Pazzini</u> ,<br>Roberto Battistini, Andrea Simone,<br>Valeria Vignali and Claudio Lantieri                          | Citizen-science approach for an environmental analysis: the case study of university cyclists in Bologna.                                      |
| 198   | Atusa Javaheri(R), Sai Sneha<br>Channamallu, Sharareh Kermanshachi,<br>Jay Michael Rosenberger, Apurva<br>Pamidimukkala, Chen Kan and Greg<br>Hladik | Predictive analysis of parking behavior after implementation of smart parking system   |
| 203   | Vincenza Torrisi, <u>Pierfrancesco</u><br><u>Leonardi</u> and Matteo Ignaccolo   | Modeling network-based accessibility to analyze the transport network vulnerability: the case study of Catania (Italy)                         |

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

| 174 | Simona De Bartolomeo, Michele<br>Ottomanelli and Leonardo Caggiani | An equity parking area location model for the transition from free-floating to station- |
|-----|--|---|
|     |  | based shared micromobility systems  |
| 201 | Gabriele D'Orso(R), Vincenza Torrisi,                              | Transforming travel experience in low   |
|     | Pierfrancesco Leonardi, Marco                                      | density areas: evidence from a DRT pilot  |
|     | Migliore, Matteo Ignaccolo and                                     | study and simulation model  |
|     | Riccardo D'Angelo  |   |

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

| Sessio                                | n <b>5 – Hall 2</b> (14.00-16.00)      | Chairperson                            |
|---------------------------------------|--|--|
| Sustainable Road Design, Construction |  | Giuseppe Cantisani                     |
| Practices and Management (1)          |  |  |
| 33                                    | Giulia Del Serrone, Paolo Peluso,      | Photovoltaic pavements in urban areas: |
|                                       | Stefano Nichele and Laura Moretti      | more benefits or drawbacks?            |
| 129                                   | Giulia Del Serrone, Giuseppe Cantisani | "Smart Road" technologies and systems  |
|                                       | and Paolo Peluso                       | for improving road infrastructure      |
|                                       |  | performances                           |

|     | ·  | ·   |
|-----|--|---|
| 149 | Miguel de Ortuzar de Garate and José           | The underwater Lamiako tunnel project in  |
|     | María de Ortuzar de Garate                     | Bilbao estuary                            |
| 166 | <u>Vladan Ilić</u> , Dejan Gavran, Sanja Fric, | Addressing aquaplaning challenges on      |
|     | Filip Trpčevski, Stefan Vranjevac, Miloš       | wide motorway pavements: A review of      |
|     | Lukić and <u>Nikola Milovanović</u>            | pavement superelevation methods in        |
|     |  | poorly drained zones                      |
| 231 | Shuvrajit Biswas(R), Avesh Ali, Gd             | The effect of basic oxygen furnace steel  |
|     | Ransinchung Rn and Sham S                      | slag and recycled concrete aggregate on   |
|     | Ravindranath                                   | the mechanical properties of asphalt      |
|     |  | concrete                                  |
| 234 | Galileo Tamasi, Graziano Tabelli,              | A methodology for the analysis of Safety  |
|     | Stefano Zampino, Emanuele Renzi,               | Management Systems for road               |
|     | Vincenzo Porretto and Nicola Sacco             | infrastructures and related analysis      |
|     |  | following road accidents near road        |
|     |  | construction sites                        |
| 238 | Rosa Veropalumbo, <u>Cristina Oreto</u> ,      | Effects of marine microplastics on the    |
|     | Nunzio Viscione, Francesca Russo and           | mechanical, chemical and environmental    |
|     | Camilla Consalvo                               | performance of bituminous binder for road |
|     |  | asphalt pavements                         |

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

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

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

| 146 | Tiziana Campisi(R), Antonio Russo, | Walkability and pick-up points in the Catania |
|-----|------------------------------------|---|
|     | Socrates Basbas, Efstathios        | Metropolitan Area, Italy: Lessons learned     |
|     | Bouhouras and Giovanni Tesoriere   |   |

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|-------|--|---|
|       | on <b>9 – Hall 3</b> (16.30-18.30)     | Chairperson                                       |
| Mobi  | lity as a Service, AI and big data for | Fabio Borghetti                                   |
| trans | port models and planning               |   |
| 46    | Camille Vedel, Stefano Fraire and      | The impacts of MaaS bundles                       |
|       | Marco De Divitis                       | over mobility habits and behavioral changes       |
| 76    | Marco Petrelli, Gemma Andrea,          | In depth analysis of the speed limits in the road |
|       | Livia Mannini and Alessandra           | network of Lazio region                           |
|       | Renna                                  |   |
| 118   | Roberto Ventura(R), Giulio             | Comparing Econometric and Machine Learning        |
|       | Maternini, Alessandro Olivo, David     | Models for Predicting Fare Evasion Frequency: A   |
|       | Vetturi and Benedetto Barabino         | Case Study in Cagliari (Italy)                    |
| 135   | Vittorio Astarita, Sami Shaffiee       | A Bibliometric-Based Literature Review on         |
|       | Haghshenas, Sina Shaffiee              | Artificial Intelligence in Disaster Response      |
|       | Haghshenas, Giuseppe Guido and         |   |
|       | Giulia Martino                         |   |
| 199   | Hao Wang, Sai Sneha                    | Economics of smart parking: predictive analytics  |
|       | Channamallu, Sharareh                  | in optimizing urban parking revenue               |
|       | Kermanshachi, Jay Michael              |   |
|       | Rosenberger, <u>Apurva</u>             |   |
|       | Pamidimukkala(R), Chen Kan and         |   |
|       | Greg Hladik                            |   |
| 218   | Francesco Piras(R), Eleonora           | Drivers and barriers of Mobility-as-a-Service:    |
|       | Sottile, Italo Meloni and Alice        | insights from stakeholders of a middle-size       |
|       | Scalas                                 | Italian city                                      |
| 229   | Corrado Rindone and Antonino           | Mobility as a Service towards sustainability:     |
|       | <u>Vitetta</u>                         | pilot experiments and user choice analysis        |

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

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

|         | 10 11 11 1 (10 00 10 00)              |  |
|---------|---------------------------------------|--|
| Sessio  | o <b>n 12 — Hall 4</b> (16.30-18.30)  | Chairperson                                  |
| Air tra | insport planning and management,      | Alessandro Di Graziano                       |
| Airpor  | rt Infrastructures and Pavement       |  |
| Mana    | gement Systems                        |  |
| 17      | Zvonimir Rezo, Sanja Steiner, Andrea  | Aircraft Engine Emissions Reporting          |
|         | Tikvica and Dario Fakleš              | Information System Validation                |
| 22      | Olja Čokorilo, Srdjan Čokorilo and    | A framework for aviation security            |
|         | <u>Lidija Tomić(R)</u>                |  |
| 104     | Stefano Nichele, Laura Moretti and    | Statistical analysis of lateral deviation of |
|         | Paola Di Mascio                       | aircraft landings on a non-instrumental      |
|         |                                       | runway                                       |
| 132     | Alessandro Di Graziano, Eliana        | BIM Integrated Airport Pavement              |
|         | Ragusa, Giuseppina Pappalardo and     | Management System                            |
|         | Emanuele Delfino                      |  |
| 168     | Tiziana Campisi(R), Luigi Sanfilippo, | Monitoring and comparing traffic data for    |
|         | Alberto Brignone, Giovanni Tesoriere  | the improvement of airport landside          |
|         | and Muhammad Ahmad Al-Rashid          | accessibility: the Fontanarossa-Catania case |
|         |                                       | study  |
| 190     | Ruggero Pinto, Luca Bianchini         | Digital management of airport pavement:      |
|         | Ciampoli and Andrea Benedetto         | preliminary achievements on apron areas      |

# Friday, September 20, 2024

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

|     | on 14 – Hall 1 (12.00-14.00)         | Chairperson  |
|-----|--------------------------------------|--|
| (2) | ogistics and urban freight transport | Patricija Bajec                                    |
| 59  | Ish Kumar(R) and Chidambara          | A Comparative Evaluation of Freight Strategies     |
|     | Chidambara                           | for Online Business Models in Delhi: A Fuzzy AHP   |
|     |                                      | and TOPSIS Approach                                |
| 96  | Daniel Mark Vitiello, Patrizia Serra | Assessing greenhouse gas emissions arising         |
|     | and Gianfranco Fancello              | from intermodal freight transport chains using     |
|     |                                      | the ISO14083 standard                              |
| 126 | Michela Le Pira(R), Nadia            | Exploring the feasibility of Mobility as a Service |
|     | Giuffrida, Rodrigo Tapia, Lóránt     | (MaaS) for integrated passenger and freight        |
|     | Tavasszy, Gonçalo Correia,           | transport through a Delphi survey                  |
|     | Francesco Pilla, Matteo Ignaccolo    |  |
|     | and Giuseppe Inturri                 |  |
| 193 | Daniel Quiter <u>, Maximilian</u>    | Best practices for implementing sustainable        |
|     | Engelhardt, Birte Malzahn and        | urban logistics — the case of freight              |
|     | Stephan Seeck                        | consolidation for a Berlin industrial area         |
| 209 | Rodrigo Tapia, Lori Tavasszy,        | Designing an Urban Logistics Living Lab.           |
|     | Valerio Gatta, Edoardo Marcucci      | Experiences from The Hague and Rome                |
|     | and Mateo Snoeijenbos                |  |

| 242 | Snežana Tadić, <u>Ljubica</u>    | Evaluating barriers to drone application in rural |
|-----|----------------------------------|---|
|     | Radovanović(R), Mladen Krstić,   | areas   |
|     | Olja Čokorilo and Miloš Veljović |   |

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

|     | 46 11 112 (0.20 44.20)                          | Cl. :                                       |
|-----|---|---|
|     | on 16 – Hall 2 (9.30-11.30)                     | Chairperson                                 |
|     | Asset Management and Road Safety                | Patrizia Serra                              |
| Man | agement (2)                                     |   |
| 136 | Stefano Zampino, Luca Conticini, Alfonso        | A Procedure for Network Wide Road           |
|     | Montella and Maurizio Mancinetti                | Safety Assessment in Italy                  |
| 139 | Steffel Ludivin Tezong Feudjio, Stephen         | Traffic Conflict Approach in Road Safety:   |
|     | Kome Fondzenyuy, Elvis Chia Ngwah, Jean         | A Review of Data Collection Methods         |
|     | François Wounba, Davide Shingo Usami            |   |
|     | and Luca Persia                                 |   |
| 161 | Michele Pinna, Gianfranco Fancello and          | An integrated Road safety analysis for      |
|     | Patrizia Serra                                  | urban and suburban black spots              |
|     |   | localization                                |
| 180 | Tevoh Lordswill Ndingwan, Jean François         | Assessment and countermeasures              |
|     | Wounba, Stephen Kome Fondzenyuy,                | selection for safer roads to schools in the |
|     | Steffel Ludivin Feudjio Tezong, Rita            | city of Yaoundé: progressive evaluation     |
|     | Awasiri Ndonue, Davide Shingo Usami and         | using surveys and iRAP methodology          |
|     | Luca Persia                                     |   |
| 195 | Erika Garilli, Federico Autelitano and          | The Parma University Campus as major        |
|     | Felice Giuliani                                 | trip attractor. Traffic microsimulation for |
|     |   | modelling vehicle access scenarios.         |
| 240 | Stefano Raccagni, Roberto Ventura, Giulio       | Effects of road characteristics on          |
|     | Maternini and Benedetto Barabino                | operating speed along the urban road        |
|     |   | network of Brescia (Italy)                  |
| 236 | Galileo Tamasi, Graziano Tabelli, Stefano       | Inspection of existing tunnels:             |
|     | Zampino, Emanuele Renzi, Erika Garusi,          | development of an innovative                |
|     | Giuseppe Orsini <u>, Stefano Grimaz</u> , Petra | methodology and use of special              |
|     | Malisan, Fabio Zorzini and Enrico Del Pin       | equipment for technical triage.             |

|       | 47 11 11 0 (42.00 44.00)                    | Cl :                                       |
|-------|---|--|
| Sessi | on <b>17 – Hall 2</b> (12.00-14.00)         | Chairperson                                |
| Susta | ninable Road Design, Construction Practices | Luigi Di Matteo                            |
| and I | Management (2)                              |  |
| 48    | Marinella Giunta and Giovanni Leonardi      | Data-driven track geometry defects         |
|       |   | localization and strategies for preventive |
|       |   | maintenance: a case study                  |
| 53    | Daniele Soraggi and Gabriele Ivano          | Meet me halfway. Genoese                   |
|       | <u>D'Amato</u>                              | infrastructure agenda: between             |
|       |   | construction and renovation.               |
| 62    | Salvatore Antonio Biancardo, <u>Mattia</u>  | Rainwater drainage systems solutions       |
|       | Intignano, Francesco Abbondati,             | for safer transport infrastructures        |
|       | Francesca Di Fonzo, Carlo Gualtieri and     |  |
|       | Gianluca Dell'Acqua                         |  |
| 77    | Mohammad Abbasi, Alice Consilvio, Israel    | On supporting traffic management           |
|       | Alejandro Hernández-González, Paula         | decisions according to bridges structural  |
|       | Lopez Arevalo and Hamidreza Alavi           | health monitoring within a digital twin-   |
|       |   | oriented platform                          |

| 94  | Salvatore Bruno, Antonello De Amicis,    | Advancing Road Infrastructure: Cross-   |
|-----|--|---|
|     | Giuseppe Loprencipe, Simone Orlandini,   | Slope Analysis of Road Sections Using a |
|     | Gianmarco Rotondi and Lorenzo Vita       | Mobile Mapping System (MMS)             |
| 110 | Alessandro Corradini, Gianluca Cerni and | Study on skid resistance of road        |
|     | Pier Riccardo Porceddu                   | pavements contaminated by soil fine     |
|     |  | particles                               |
| 175 | Alessandro Marradi, Chiara Mignini,      | Damage evolution assessment of          |
|     | Alessandro Friani, Arianna Stimilli and  | innovative sustainable semi-flexible    |
|     | Tullio Caraffa                           | pavements through Accelerated           |
|     |  | Pavement Testing                        |

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

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

| Sessi | on <b>20 – Hall 3</b> (12.00-14.00)      | Chairperson                                   |
|-------|--|---|
| Multi | imodal and integrated transport          | Elena Cocuzza                                 |
| syste | ms                                       |   |
| 18    | Giuseppe Salvo, <u>Alessandro Emilio</u> | Multimodality between micromobility and       |
|       | Capodici(R) and Luigi Sanfilippo         | public transport services: different policies |
|       |  | and practices in European cities              |
| 36    | Valentina Costa and Ilaria Delponte      | 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.  |
| 55    | Eleni Kougia, Christos Karolemeas,       | Modeling the spatial variability of the       |
|       | Panagiotis Tzouras, Lambros              | willingness to use carsharing services in     |
|       | Mitropoulos(R) and Konstantinos          | urban areas                                   |
|       | Kepaptsoglou                             |   |
| 67    | Valentina Costa, Federico Campanini      | Shared practices and experiences of           |
|       | and Ilaria Delponte                      | University Mobility Management. Exploring     |
|       |  | scalability at the municipal level            |
| 87    | Annalisa Zoli, Margherita Pazzini,       | Users' preferences on bike-train              |
|       | Valeria Vignali, Andrea Simone,          | intermodality: what can induce travelers to   |
|       | Massimo Gaspardo Moro, Katia             | use this type of intermodal transport?        |
|       | Raffaelli and Claudio Lantieri           |   |

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

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

| Sessio | n <b>22 – Hall 4</b> (9.30-11.30)            | Chairperson                                   |
|--------|--|---|
| Trans  | port infrastructure and systems analysis     | Enrico Pagliari                               |
| 235    | Galileo Tamasi, Graziano Tabelli,            | VISIVIA research project: set-up of the VISIT |
|        | Stefano Zampino, Emanuele Renzi,             | (Visual Inspection for Safety-deficit         |
|        | Giuseppe Palermo, Luca Conticini,            | Identification and Triage) methodology and    |
|        | Stefano Grimaz, <u>Petra Malisan</u> , Fabio | use of equipped vehicles for inspection of    |
|        | Zorzini and Enrico Del Pin                   | existing roads                                |
| 71     | Masoud Saljoqi, Riccardo Ceccato,            | Network-level analysis of the effects of      |
|        | Gregorio Gecchele, Riccardo Rossi            | drivers' preferences toward driving behavior  |
|        | and Massimiliano Gastaldi                    | of Automated Vehicles: a microsimulation      |
|        |  | study on a highway segment                    |
| 214    | Nadia Giuffrida, Salvatore Viscio and        | State of the art on mapping tools in the      |
|        | Mario Binetti                                | context of CCAM and Smart Infrastructure      |

| 223 | Enrico Pagliari, Stefania Balestrieri,<br>Eugenia Ancidoni and Mariano<br>Iervolino             | A new methodology based on Artificial<br>Intelligence for road infrastructure<br>monitoring, with a special focus on<br>pedestrian crossings |
|-----|---|--|
| 233 | Sai Sneha Channamallu(R), Deema<br>Almaskati, Sharareh Kermanshachi<br>and Apurva Pamidimukkala | Machine Learning Insights into AV Crash Dynamics: Predicting Injury Outcomes   |
| 241 | Giovanni Mantovani  | The Tram Renaissance in Rome, 1983 - 2024  |

| Sessio  | n <b>23 – Hall 4</b> (12.00-14.00)     | Chairperson                               |
|---------|--|---|
| Sustai  | nable Infrastructure Design and Life   | Luca Tefa                                 |
| Cycle A | Assessment                             |   |
| 13      | Beatrice De Pascale, Piergiorgio       | A Comparative life cycle-based decision-  |
|         | Tataranni, Alessandra Bonoli and       | making framework for road pavement        |
|         | Claudio Lantieri                       | structures incorporating recycled and     |
|         |  | artificial aggregates.                    |
| 34      | Giulia Del Serrone, Gennaro Riccio     | Life cycle assessment of prestressed      |
|         | and Laura Moretti                      | concrete railway sleepers                 |
| 74      | Salvatore Bruno, Cristiano Fustaino,   | Comprehensive Analysis of Adherence in    |
|         | Giuseppe Loprencipe and Lorenzo        | Stone Pavements                           |
|         | <u>Vita</u>                            |   |
| 81      | Maria Luisa Tumminello, Nazanin        | Towards smart and sustainable road        |
|         | Zare, Elżbieta Macioszek, Anna Granà   | intersection design embedding connected,  |
|         | and Tullio Giuffrè                     | cooperative and automated vehicles        |
| 226     | Griselda López Maldonado, <u>David</u> | Analysis of the relationship between road |
|         | Llopis-Castelló(R), Sara Moll          | geometric design and disengagements in    |
|         | Montaner and Víctor Manuel Ramos       | SAE2 level vehicles                       |
|         | Meléndez                               | 5. i== 15. 5. <b>V65.05</b>               |
|         |  |   |

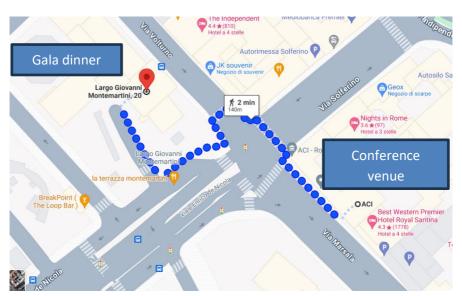
### **Gala Dinner**

## Thursday, September 19, 2024

# at "Palazzo Montemartini"



Largo Giovanni Montemartini 20 - 00185 Rome - Italy



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