



AIIT 4TH INTERNATIONAL CONFERENCE

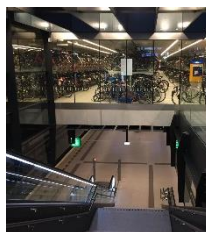
GREENING THE WAY FORWARD: SUSTAINABLE TRANSPORT
INFRASTRUCTURE AND SYSTEMS

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



September 19-20, 2024

Roma, ACI Building, Via Marsala, 8



www.tisroma.aiit.it

TIS ROMA 2024

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AIIT 4TH INTERNATIONAL CONFERENCE

GREENING THE WAY FORWARD: SUSTAINABLE TRANSPORT
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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GREENING THE WAY FORWARD: SUSTAINABLE TRANSPORT
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19TH - 20TH SEPTEMBER 2024, ROME (ITALY)

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> | | | |

For Italian Participants (info on event accreditation for engineers): *È in corso la richiesta di riconoscimento di 3 Crediti Formativi per giornata di evento (per un totale di 6 CFP) per ingegneri, rilasciati per il tramite di AIIT in qualità di Provider riconosciuto dal CNI (Parere Ministeriale n. 6777/2015) (cod. CNI 24p457950 e 24p60274). Il riconoscimento dei crediti formativi è subordinato alla verifica della presenza dei partecipanti per tutta la durata dell'intera giornata.*

DETAILED PROGRAM

Thursday, September 19, 2024

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

| | Session 1 – Hall 1 (11.00-13.00) <i>Environmental, social and economic sustainability of transport systems</i> | <i>Chairperson</i> <i>Nadia Giuffrida</i> |
|-----|---|---|
| 1 | <u>Mariano Gallo (R)</u> | <i>Optimal location of refuelling stations for hydrogen-powered freight vehicles: models, methods and case studies</i> |
| 79 | Jack Bradbury and <u>Shohel Amin(R)</u> | <i>Exposure of bicyclists to vehicle emissions at bicycle routes of major roads in the UK cities</i> |
| 85 | <u>Graham Parkhurst</u> | <i>Automated urban buses: an application of autonomous vehicle technology on route to sustainable development?</i> |
| 88 | Nuhamin Gezehagne Assefa, <u>Martina Carra(R)</u> , Roberto Ventura, Anna Richiede, Giulio Maternini and Benedetto Barabino | <i>Assessing Tram-Train feasibility via Multicriteria Approach: The Case of Brescia (Italy)</i> |
| 89 | <u>Diana Naranjo</u> , 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 | <u>José María de Ortuzar de Garate</u> 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> |

| Session 2 – Hall 1 (14.00-16.00) <i>Sustainable urban mobility planning</i> | | <i>Chairperson</i> <i>Riccardo Ceccato</i> |
|---|--|---|
| 32 | <u>Sina Shaffiee Haghshenas</u> , 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, <u>Annie Kortsari</u> and Georgia Ayfantopoulou | <i>An accessibility-driven method for planning first and last mile micromobility services</i> |
| 124 | <u>Yuri Calleo</u> , 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> |
| 160 | <u>Giovanni Calabrò</u> , Michela Le Pira, Giuseppe Inturri and Salvatore Cavalieri | <i>Measuring the readiness to become a “30 km/h city”</i> |
| 173 | Alessandro Nalin, <u>Margherita Pazzini</u> , 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> |
| 198 | <u>Atusa Javaheri(R)</u> , 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, <u>Pierfrancesco Leonardi</u> and Matteo Ignaccolo | <i>Modeling network-based accessibility to analyze the transport network vulnerability: the case study of Catania (Italy)</i> |

| Session 3 – Hall 1 (16.30-18.30) <i>Shared mobility and mobility on demand</i> | | <i>Chairperson</i> <i>Graham Parkhurst</i> |
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| 19 | Pavlos Tafidis, <u>Nadia Giuffrida</u> 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, <u>Panagiotis G. Tzouras</u> , Ioannis Chatziioannou and Konstantinos Kepaptoglou | <i>A first investigation of perceived safety spatial patterns in Athens, Greece</i> |
| 72 | <u>Sapan Tiwari(R)</u> , Samarth Ghoslya and Janak Parmar | <i>A Cost-Based Assignment of Demand-Responsive Transportation: A Comparative Study with Public Transportation Alternatives</i> |

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| 117 | <u>Sapan Tiwari(R)</u> | <i>Analyzing Ride-Hailing Services Utilization in Greater Melbourne: Influences of Service Area and Vehicle Capacity</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> |
| 201 | <u>Gabriele D'Orso(R)</u> , Vincenza Torrisi, 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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| Session 4 – Hall 2 (11.00-13.00) <i>Road Asset Management and Road Safety Management (1)</i> | | <i>Chairperson</i> <i>Cristina Oreto</i> |
| 15 | <u>Manuel De Rose</u> , 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, <u>Paola Di Mascio</u> , 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, <u> Davide Shingo Usami</u> and Luca Persia | <i>Validation of a simplified road assessment programme methodology</i> |
| 60 | <u>Junxiang Xu(R)</u> and Divya Jayakumar Nair | <i>Reevaluating Network Connectivity: The Critical Role of the Relative Size of Largest Connected Component (RSLCC)</i> |
| 82 | Giuseppe Cantisani, <u>Paolo Peluso</u> , Andrea Pompigna and Giulia Del Serrone | <i>A GIS-based methodology to observe driver behaviors and infrastructure characteristics through operating speeds</i> |
| 101 | <u>Sara Siverio</u> , 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 | <u>Eugenio Mariani</u> , 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> |

| Session 5 – Hall 2 (14.00-16.00) <i>Sustainable Road Design, Construction Practices and Management (1)</i> | | <i>Chairperson</i> <i>Giuseppe Cantisani</i> |
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| 33 | Giulia Del Serrone, Paolo Peluso, Stefano Nichele and <u>Laura Moretti</u> | <i>Photovoltaic pavements in urban areas: more benefits or drawbacks?</i> |
| 129 | <u>Giulia Del Serrone</u> , Giuseppe Cantisani and Paolo Peluso | <i>"Smart Road" technologies and systems for improving road infrastructure performances</i> |
| 149 | <u>Miguel de Ortuzar de Garate</u> and José María de Ortuzar de Garate | <i>The underwater Lamiako tunnel project in Bilbao estuary</i> |
| 166 | <u>Vladan Ilić</u> , Dejan Gavran, Sanja Fric, Filip Trpčevski, Stefan Vranjevac, Miloš Lukić and <u>Nikola Milovanović</u> | <i>Addressing aquaplaning challenges on wide motorway pavements: A review of pavement superelevation methods in poorly drained zones</i> |
| 231 | <u>Shuvrajit Biswas(R)</u> , 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 | <u>Galileo Tamasi</u> , 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, <u>Cristina Oreto</u> , 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> |

| Session 6 – Hall 2 (16.30-18.30) <i>Human factors and Driving Simulation Studies for Safer Road Infrastructures</i> | | <i>Chairperson</i> <i>Stefano Zampino</i> |
|---|---|---|
| 65 | <u>Antonios Trakakis(R)</u> , Konstantinos Apostoleris, Basil Psarianos and Stergios Mavromatis | <i>Speed on European Interchange Ramps: A Completed Correlation among Greek, Dutch & Russian Drivers</i> |
| 119 | <u>Natalia Distefano</u> and Salvatore Leonardi | <i>Sustainable Mobility: A Comparative Analysis of Vehicle Interactions Involving Cars, E-Scooters, and Bicycles at Urban Intersections</i> |
| 144 | <u>Stefano Zampino</u> 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 <u>Andrea Vennarucci</u> | <i>A Novel Co-Simulation Platform for Driving Performance Evaluation of Various Road Users</i> |

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| 172 | Giovanni Bruno, Paolo Lorenzini, Elisa Gambaretto, <u>Alberto Portera(R)</u> , 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 | <u>Xoliswa E. Feikie</u> and Jacob Adedayo Adedeji | <i>The Significance of Informal Communication for Road User Safety from Pedestrians' Perspective</i> |

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| Session 7 – Hall 3 (11.00-13.00) <i>Climate Change mitigation and adaptation strategies</i> | | <i>Chairperson</i> <i>Angela Carboni</i> |
| 11 | Cristina Bircu, <u>Francesco Bruzzone</u> , Federico Cavallaro, Alessandro Indelicato and Silvio Nocera | <i>Reducing road congestion and air pollution with ICT-based platooning</i> |
| 28 | <u>Luca D'Acerno(R)</u> , 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 | <u>Funda Ture Kibar</u> , 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 | <u>Angela Carboni</u> 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 | <u>Mirjana Grdinić Rakonjac(R)</u> and Marko Lučić | <i>Electric vehicle selection with easy applicable MCDM methods</i> |
| 208 | <u>Paolo Lazzeroni</u> 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 <u>Giuseppe D'Addio</u> | <i>Environmental sustainability of recycling alternative secondary aggregates for cold recycled binder layers of road asphalt pavements</i> |

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| Session 8 – Hall 3 (14.00-16.00) <i>City logistics and urban freight transport (1)</i> | | <i>Chairperson</i> <i>Rodrigo Tapia</i> |
| 14 | Ish Kumar, <u>Lakshman R(R)</u> and Bhaskar Gowd Sudagani | <i>Impact of Truck Access Restrictions on Freight Operations and Driver Quality of Life in Urban India</i> |
| 30 | <u>Bhavani Shankar Balla</u> , 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> |

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| 78 | <u>Salar Salehi</u> , 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 | <u>Patricija Bajec</u> , Halyna Pivtorak and <u>Libor Svadlenka</u> | <i>Research on Last-Mile Crowdsipping: Identification of Barriers and Enablers Impacting Willingness-To-Work as a crowdshipper Across Diverse Groups and Countries</i> |
| 146 | Tiziana Campisi(R), 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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| Session 9 – Hall 3 (16.30-18.30) <i>Mobility as a Service, AI and big data for transport models and planning</i> | | <i>Chairperson</i> Fabio Borghetti |
| 46 | <u>Camille Vedel</u> , Stefano Fraire and Marco De Divitis | <i>The impacts of MaaS bundles over mobility habits and behavioral changes</i> |
| 76 | <u>Marco Petrelli</u> , Gemma Andrea, Livia Mannini and Alessandra Renna | <i>In depth analysis of the speed limits in the road network of Lazio region</i> |
| 118 | <u>Roberto Ventura(R)</u> , Giulio Maternini, Alessandro Olivo, David Vetturi and <u>Benedetto Barabino(R)</u> | <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 <u>Giulia Martino</u> | <i>A Bibliometric-Based Literature Review on Artificial Intelligence in Disaster Response</i> |
| 199 | Hao Wang, Sai Sneha Channamallu, Sharareh Kermanshachi, Jay Michael Rosenberger, <u>Apurva Pamidimukkala(R)</u> , Chen Kan and Greg Hladik | <i>Economics of smart parking: predictive analytics in optimizing urban parking revenue</i> |
| 218 | <u>Francesco Piras(R)</u> , 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 <u>Antonino Vitetta</u> | <i>Mobility as a Service towards sustainability: pilot experiments and user choice analysis</i> |

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

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

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| 237 | Marco Pasetto and <u>Giovanni Giacomello</u> | <i>Design Alternatives Assessment for the Ground Consolidation Under a Railway Line Embankment in Italy</i> |
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| Session 12 – Hall 4 (16.30-18.30) <i>Air transport planning and management, Airport Infrastructures and Pavement Management Systems</i> | | <i>Chairperson</i> <i>Alessandro Di Graziano</i> |
| 17 | <u>Zvonimir Rezo</u> , Sanja Steiner, Andrea Tikvica and Dario Fakleš | <i>Aircraft Engine Emissions Reporting Information System Validation</i> |
| 22 | Olja Čokorilo, Srdjan Čokorilo and <u>Lidija Tomić(R)</u> | <i>A framework for aviation security</i> |
| 104 | <u>Stefano Nichele</u> , 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, <u>Eliana Ragusa</u> , Giuseppina Pappalardo and Emanuele Delfino | <i>BIM Integrated Airport Pavement Management System</i> |
| 168 | <u>Tiziana Campisi(R)</u> , 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 | <u>Ruggero Pinto</u> , Luca Bianchini Ciampoli and Andrea Benedetto | <i>Digital management of airport pavement: preliminary achievements on apron areas</i> |

Friday, September 20, 2024

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

| Session 14 – Hall 1 (12.00-14.00) | | Chairperson |
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| <i>City logistics and urban freight transport (2)</i> | | <i>Patricija Bajec</i> |
| 59 | <u>Ish Kumar(R)</u> and Chidambara Chidambara | <i>A Comparative Evaluation of Freight Strategies for Online Business Models in Delhi: A Fuzzy AHP and TOPSIS Approach</i> |
| 96 | <u>Daniel Mark Vitiello</u> , Patrizia Serra and Gianfranco Fancello | <i>Assessing greenhouse gas emissions arising from intermodal freight transport chains using the ISO14083 standard</i> |
| 126 | <u>Michela Le Pira(R)</u> , 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, <u>Maximilian Engelhardt</u> , 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 | <u>Rodrigo Tapia</u> , Lori Tavasszy, Valerio Gatta, Edoardo Marcucci and Mateo Snoeijsbos | <i>Designing an Urban Logistics Living Lab. Experiences from The Hague and Rome</i> |

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| 242 | Snežana Tadić, <u>Ljubica Radovanović(R)</u> , Mladen Krstić, Olja Čokorilo and <u>Miloš Veljović(R)</u> | <i>Evaluating barriers to drone application in rural areas</i> |
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| Session 15 – Hall 1 (15.00-17.00) <i>Active mobility and micromobility</i> | | <i>Chairperson</i> <i>Anna Contenti</i> |
|--|---|---|
| 5 | Letizia Appolloni, Maria Vittoria Corazza and <u>Daniela D'Alessandro(R)</u> | <i>Improving Walkability for Sustainable Mobility and Urban Regeneration in Rome</i> |
| 21 | <u>Rosita De Vincentis</u> , 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, <u>Tejas Singri Krishnamurthy</u> , 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 | <u>Anna Psarra</u> , 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 <u>Fabio D'Andreagiovanni</u> | <i>And then there were three: GIS-based analysis of the new three-operator-only e-scooter sharing system of Rome, Italy</i> |
| 219 | <u>Michela Le Pira(R)</u> , <u>Matteo Ignaccolo(R)</u> , Giuseppe Inturri and Elena Cocuzza | <i>Innovative solutions to promote sustainable micromobility: insights from a literature review within the IN-MOB project</i> |
| 225 | <u>Ana Trpković(R)</u> , Predrag Živanović, Sreten Jevremović, Eleni Anoyrkati and Vladislav Maraš | <i>Active Mobility Potentials for Tackling Youth Post-Pandemic Inactivity</i> |

| Session 16 – Hall 2 (9.30-11.30) <i>Road Asset Management and Road Safety Management (2)</i> | | <i>Chairperson</i> <i>Patrizia Serra</i> |
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| 136 | <u>Stefano Zampino</u> , Luca Conticini, Alfonso Montella and Maurizio Mancinetti | <i>A Procedure for Network Wide Road Safety Assessment in Italy</i> |
| 139 | <u>Steffel Ludivin Tezong Feudjio</u> , 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 | <u>Michele Pinna</u> , 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, <u>Stephen Kome Fondzenyuy</u> , 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 | <u>Erika Garilli</u> , Federico Autelitano and Felice Giuliani | <i>The Parma University Campus as major trip attractor. Traffic microsimulation for modelling vehicle access scenarios.</i> |
| 240 | <u>Stefano Raccagni</u> , Roberto Ventura, Giulio Maternini and Benedetto Barabino | <i>Effects of road characteristics on operating speed along the urban road network of Brescia (Italy)</i> |
| 236 | <u>Galileo Tamasi</u> , Graziano Tabelli, Stefano Zampino, Emanuele Renzi, Erika Garusi, Giuseppe Orsini, <u>Stefano Grimaz(R)</u> , 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> |

| Session 17 – Hall 2 (12.00-14.00) <i>Sustainable Road Design, Construction Practices and Management (2)</i> | | <i>Chairperson</i> <i>Luigi Di Matteo</i> |
|---|---|---|
| 48 | <u>Marinella Giunta</u> and Giovanni Leonardi | <i>Data-driven track geometry defects localization and strategies for preventive maintenance: a case study</i> |
| 53 | Daniele Soraggi and <u>Gabriele Ivano D'Amato</u> | <i>Meet me halfway. Genoese infrastructure agenda: between construction and renovation.</i> |
| 62 | Salvatore Antonio Biancardo, <u>Mattia Intignano</u> , Francesco Abbondati, Francesca Di Fonzo, Carlo Gualtieri and Gianluca Dell'Acqua | <i>Rainwater drainage systems solutions for safer transport infrastructures</i> |
| 77 | <u>Mohammad Abbasi</u> , 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> |

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| 94 | <u>Salvatore Bruno</u> (R), 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 | <u>Alessandro Marradi</u> , Chiara Mignini, Alessandro Friani, Arianna Stimilli and Tullio Caraffa | <i>Damage evolution assessment of innovative sustainable semi-flexible pavements through Accelerated Pavement Testing</i> |

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| Session 18 – Hall 2 (15.00-17.00) Safety Strategies for Vulnerable Road Users | | Chairperson <u>Victoria Gitelman</u> |
| 8 | <u>Nicholas Fiorentini</u> 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 | <u>Victoria Gitelman</u> | <i>Evaluating the safety effects of infrastructure measures on non-urban roads, in Israel</i> |
| 86 | Vittorio Ranieri, Nicola Berloco, Stefano Coropulis, <u>Paolo Intini</u> , 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, <u>Manuel Merolla</u> , Steffel Ludivin Feudjio Tezong and Luca Persia | <i>Road safety capacity building in Cameroon: train-the-trainers approach</i> |
| 123 | <u>Irena Ištoka Otković</u> , 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 | <u>Julia Maria Slowy</u> , 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> |

| Session 19 – Hall 3 (9.30-11.30) <i>Public transport</i> | | <i>Chairperson</i> <i>Silvio Nocera</i> |
|--|---|--|
| 37 | Gino D'Ovidio, Maximilian Di Pasquale and <u>Lorenzo Mario D'Angelo</u> | <i>A novel approach operative-TCO based to assess the LPT company costs of hydrogen-fueled buses use</i> |
| 50 | <u>Maria Vittoria Corazza</u> and Matthew Robinson | <i>Best practice for water management and saving for bus operators</i> |
| 83 | <u>Alessandro Nalin</u> , 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 | <u>Fabio Borghetti</u> , <u>Beatrice Bianchini(R)</u> , 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 | <u>Nimish Laddha(R)</u> , 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 | <u>Isabel Santoro</u> , 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 | <u>Michelangelo Fusì</u> and Michela Tiboni | <i>The new tram renaissance in Italy: an evaluation from an urbanistic perspective</i> |

| Session 20 – Hall 3 (12.00-14.00) <i>Multimodal and integrated transport systems</i> | | <i>Chairperson</i> <i>Elena Cocuzza</i> |
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| 18 | Giuseppe Salvo, <u>Alessandro Emilio Capodici(R)</u> and Luigi Sanfilippo | <i>Multimodality between micromobility and public transport services: different policies and practices in European cities</i> |
| 36 | <u>Valentina Costa</u> 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, <u>Panagiotis Tzouras</u> , <u>Lambros Mitropoulos(R)</u> and Konstantinos Kepaptsoglou | <i>Modeling the spatial variability of the willingness to use carsharing services in urban areas</i> |
| 67 | Valentina Costa, <u>Federico Campanini</u> and Ilaria Delponte | <i>Shared practices and experiences of University Mobility Management. Exploring scalability at the municipal level</i> |
| 87 | <u>Annalisa Zoli</u> , 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> |

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| 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> |

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| Session 21 – Hall 3 (15.00-17.00) <i>Digitalization in transport, Intelligent Transport Systems</i> | | <i>Chairperson</i> Michela Bonera |
| 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(R) , Sharareh Kermanshachi, Jay Michael Rosenberger, Apurva Pamidimukkala and Greg Hladik | <i>Cluster-based analysis of parking satisfaction and strategies</i> |
| 202 | Deema Nabeel Almaskati(R) , 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> |

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| Session 22 – Hall 4 (9.30-11.30) <i>Transport infrastructure and systems analysis</i> | | <i>Chairperson</i> Enrico Pagliari |
| 235 | Galileo Tamasi , Graziano Tabelli, Stefano Zampino, Emanuele Renzi, Giuseppe Palermo, Luca Conticini, Stefano Grimaz, Petra Malisan(R) , 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> |
| 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> |
| 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> |

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

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| Session 23 – Hall 4 (12.00-14.00) <i>Sustainable Infrastructure Design and Life Cycle Assessment</i> | | <i>Chairperson</i> <i>Luca Tefa</i> |
| 13 | <u>Beatrice De Pascale</u> , 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, <u>Gennaro Riccio</u> and Laura Moretti | <i>Life cycle assessment of prestressed concrete railway sleepers</i> |
| 74 | Salvatore Bruno, Cristiano Fustaino, Giuseppe Loprencipe and <u>Lorenzo Vita</u> | <i>Comprehensive Analysis of Adherence in Stone Pavements</i> |
| 81 | <u>Maria Luisa Tumminello</u> , 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, <u>David Llopis-Castelló(R)</u> , Sara Moll Montaner and Víctor Manuel Ramos Meléndez | <i>Analysis of the relationship between road geometric design and disengagements in SAE2 level vehicles</i> |

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| Closing Ceremony – Hall 1 (17.00-18.00) | |
| <i>Chairperson: Angela Carboni, Organizing Committee member</i> | |
| Awards ceremony <i>Michela Le Pira, Conference Chair, Scientific Committee Coordinator</i> | |
| Closing remarks from authorities and TIS ROMA 2024 organizing committee <i>Enrico Pagliari, Conference Chair, Organizing Committee Coordinator</i> | |

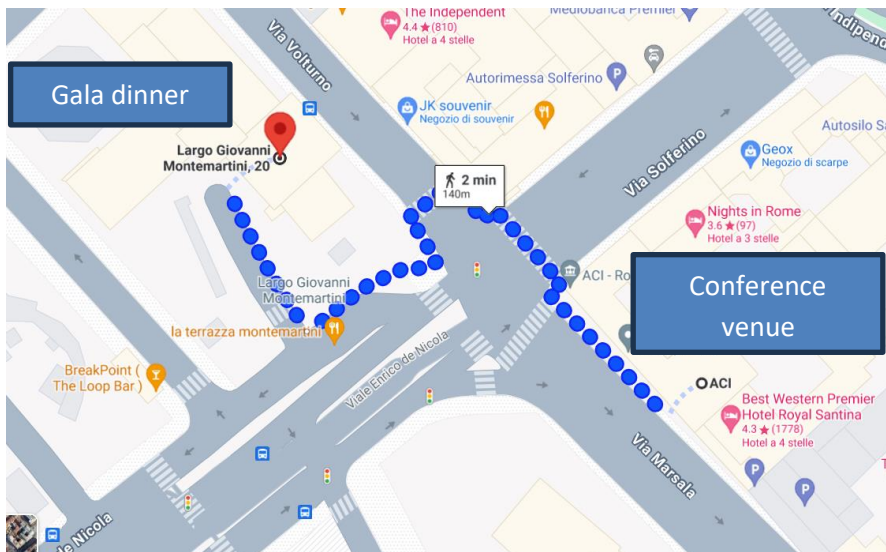
Gala Dinner

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