

## The sustainable future of mobility: policies, applications, behavior, innovations

### PROGRAM

Wednesday, June 12, 2024

**13:30 - 14:30 | Registration**

**14:30 - 14:45 | Welcome speeches**

*Stefano Carrese* - President of SIDT

*Francesco Mola* – Rector of the University of Cagliari

*Gianluca Dessì* - Mayor of Villasimius

**14:45 – 18:00 | Special session “SIDT PhD Award”**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SIDT PhD Award</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Room: Begonia + Azalea                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Chairs: Angela Carboni, Roberta Di Pace, Nicola Sacco                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"><li>– <i>Dario Ballarano</i>, Università degli Studi Roma Tre</li><li>– <i>Maria Cristina Ceccotti</i>, Università di Napoli “Federico II”</li><li>– <i>Simona De Bartolomeo</i>, Politecnico di Bari</li><li>– <i>Francesco De Fabiis</i>, Politecnico di Milano</li><li>– <i>Rosita De Vincentis</i>, Università degli Studi Roma Tre</li><li>– <i>Alessio Tesone</i>, Università di Napoli “Federico II”</li></ul> |

**18:00 - 19:00 | General assembly of SIDT members** (Room: Begonia + Azalea)

**19:00 – 19:30 | Plenary session** (Room: Begonia + Azalea): Antonio Musso - CEO of Grendi Group presents “*Grendi Group: A story of innovation.*”

**19:30 – 20:30 | Welcome Party**

Thanks to:

Thursday, June 13, 2024

08:30 - 09:00 | Registration

09:00 – 10:00 | Parallel sessions

| <b>Sustainability in transport (1)</b> |                                                                                                                                                                                                                            |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room: Begonia                          |                                                                                                                                                                                                                            |
| Chair: Bruno Dalla Chiara              |                                                                                                                                                                                                                            |
| 09:00 – 09:15                          | Cooperation and electrification in road freight transport to reduce emissions and increase profits<br><i>Claudia Caballini, Erika Olivari, Simona Sacone, Mahnam Saeednia</i>                                              |
| 09:15 – 09:30                          | Matching demand and supply in motorised mobility: a data-driven proposal for an urban-differentiated driving cycle<br><i>Simona Gurri, Flavio Cappelli, Bruno Dalla Chiara, Francesco Paolo Deflorio</i>                   |
| 09:30 – 09:45                          | Predicting Vehicle Fuel Consumption and CO2 Emissions through a Hybrid Deep Learning Approach: Analysis of Driver Behavior<br><i>Sami Shaffiee Haghshenas, Vittorio Astarita, Sina Shaffiee Haghshenas, Giuseppe Guido</i> |
| 09:45 – 10:00                          | Sustainable water management to generate savings for bus operators: facts, figures, practice, and future policy implications<br><i>Matthew Robinson, Maria Vittoria Corazza</i>                                            |

| <b>Demand analysis and modeling (1)</b> |                                                                                                                                                                                                                                        |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room: Gardenia                          |                                                                                                                                                                                                                                        |
| Chair: Ernesto Cipriani                 |                                                                                                                                                                                                                                        |
| 09:00 – 09:15                           | From Trip Purpose to Space-Time Flexibility: Advancing Dynamic Origin-Destination Matrices Estimation Models Through Crowd-Sourced Data Insights<br><i>Marisdea Castiglione, Guido Cantelmo, Ernesto Cipriani, and Marialisa Nigro</i> |
| 09:15 – 09:30                           | Investigating the impact of accessibility on internal migration flows: preliminary results for Italy<br><i>Antonio Basile, Mariano Gallo</i>                                                                                           |
| 09:30 – 09:45                           | Applying the Trust Contraction Algorithm for the Solution of Stochastic User Equilibrium<br><i>Guido Gentile, Mohamed Eldafrawi, Lory Bresciani</i>                                                                                    |
| 09:45 – 10:00                           | Exploring the potentiality of Demand Responsive Transport for better healthcare trips: evidence from Sicily<br><i>Antonio Russo, Tiziana Campisi and Giovanni Tesoriere</i>                                                            |

Thanks to:

## 10:00 – 11:00 | Parallel sessions

| <b>Investigating safety in transport systems (1)</b> |                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room: Begonia                                        |                                                                                                                                                                                                                                                                                                                |
| Chair: Vittorio Astarita                             |                                                                                                                                                                                                                                                                                                                |
| 10:00 – 10:15                                        | Predicting the Level of Road Crash Severity: A Comparative Analysis of Logit Model and Machine Learning Models<br><i>Sina Shaffiee Haghshenas, Giuseppe Guido, Sami Shaffiee Haghshenas, Vittorio Astarita</i>                                                                                                 |
| 10:15 – 10:30                                        | Investigating e-scooter safety: accident data analysis and perceptions of safety by users and non-users<br><i>Gabriele D'Orso, Leonardo Minaudo, Marco Migliore</i>                                                                                                                                            |
| 10:30 – 10:45                                        | State of the art in risk reduction in transportation systems: A bibliometric analysis on the use of artificial Intelligence, internet of things and mobile devices for emergency management<br><i>Vittorio Astarita, Giuseppe Guido, Sina Shaffiee Haghshenas, Sami Shaffiee Haghshenas and Giulia Martino</i> |
| 10:45 – 11:00                                        | Joint analysis of traffic and accidents on the road network of Rome<br><i>Ken Koshy Varghese, Lory Michelle Bresciani Miristice, Ramin Bohlouli, Guido Gentile, Mohamed Eldafrawi</i>                                                                                                                          |

| <b>Maritime transport and logistics</b> |                                                                                                                                                                            |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room: Gardenia                          |                                                                                                                                                                            |
| Chair: Massimo Di Gangi                 |                                                                                                                                                                            |
| 10:00 – 10:15                           | Port Planning and development in urban contexts: analyzing and quantifying different-stakeholders vision and conflicting interests<br><i>Stefano de Luca, Chiara Fiori</i> |
| 10:15 – 10:30                           | Containers port performance using automatic identification system data<br><i>Orlando Marco Belcore, Massimo Di Gangi, Antonio Polimeni</i>                                 |
| 10:30 – 10:45                           | Scheduling truck drivers for real transportation requests to/from ports<br><i>Francesco Contu, Massimo Di Francesco, Enrico Gorgone, Mattia Mamusa, Simone Zanda</i>       |

## 11:00 - 11:30 | Coffee break

## 11:30 - 12:30 | Parallel sessions

| <b>Demand analysis and modeling (2)</b> |                                                                                                                                                                            |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room: Gardenia                          |                                                                                                                                                                            |
| Chair: Andrea Papola                    |                                                                                                                                                                            |
| 11:30 – 11:45                           | In-Depth Investigation and Modelling on Sharing Mobility<br><i>Andrea Gemma, Stefano Carrese, Ernesto Cipriani, Livia Mannini</i>                                          |
| 11:45 – 12:00                           | Construction of discrete choice models to assess the success of the implementation of a new bikesharing service<br><i>Nicoletta Granara, Italo Meloni, Francesco Piras</i> |

Thanks to:

|               |                                                                                                                                                                                                              |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12:00 – 12:15 | A quantitative approach for a joint study area zoning and o-d flows updating: methodological formulation and performance analysis<br><i>Vittorio Marzano, Andrea Papola, Fulvio Simonelli, Fiore Tinessa</i> |
| 12:15 – 12:30 | Modeling spatial and social interdependency effects on commuting mode choice<br><i>Daniele Giubergia, Angela Haddad, Francesco Piras, Chandra Bhat, Italo Meloni</i>                                         |

|                                                                                                                                                                                                                      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Poster session: Innovation, sustainability and safety in transport</b>                                                                                                                                            |  |
| Room: Azalea                                                                                                                                                                                                         |  |
| Chair: Antonio Comi                                                                                                                                                                                                  |  |
| The role of hydrogen in zero-emission mobility for long distances: a method for positioning refill stations in a highway network<br><i>Salvatore Micari, Antonio Cartisano, Nicola Briguglio, Giuseppe Napoli</i>    |  |
| Assessment of the factors affecting the location of electric vehicle charging stations<br><i>Aleksandra Colovic, Mario Marinelli, Michele Ottomanelli</i>                                                            |  |
| Assessing Decarbonization Policies for Freight Transport in the Adriatic-Ionian Region<br><i>Francesco Guglielmi, Francesco De Fabiis, Pierluigi Coppola</i>                                                         |  |
| Evaluation of drivers' stress during traffic lane maneuvers on a high-capacity road<br><i>Gianfranco Fancello, Simone Podda, Daniel Mark Vitiello, and Patrizia Serra</i>                                            |  |
| Experimental Model of Driver Behaviour for a Dynamic On-board Safe Speed Advisory System<br><i>Filippo Carrese, Chiara Colombaroni, Gaetano Fusco, Natalia Isaenko, Zahra Lahijanjan</i>                             |  |
| Modeling High-speed Rail (HSR) service integration and timetable optimization<br><i>Pietro Mariano, Fulvio Silvestri and Pierluigi Coppola</i>                                                                       |  |
| Real-time Bridge Overload Risk Management using Machine Learning<br><i>Roberto Ventura, Giulio Maternini, Benedetto Barabino</i>                                                                                     |  |
| Application of reverse logistics models for the optimization of the circular economy in road construction<br><i>Francesca Maltinti, Chiara Garau, Massimo Di Francesco, Mauro Coni</i>                               |  |
| The opportunities of vehicle retrofitting in the freight urban distribution with zero-emission commercial hydrogen vehicles. A case study<br><i>Giuseppe Napoli, Salvatore Micari, Oleisa Hriekova, Antonio Comi</i> |  |

### 12:30 - 13:30 | Parallel sessions

|                                        |                                                                                                                                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sustainability in transport (2)</b> |                                                                                                                                                                                                  |
| Room: Gardenia                         |                                                                                                                                                                                                  |
| Chair: Michele Ottomanelli             |                                                                                                                                                                                                  |
| 12:30 – 12:45                          | How can sustainable mobility interventions be assessed into the framework of urban projects? An experimental analysis<br><i>Francesco Piras, Italo Meloni, Nicola Miscali, Benedetta Rubattu</i> |
| 12:45 – 13:00                          | The environmental sustainability of transport chains<br><i>Daniel Mark Vitiello, Gianfranco Fancello, Patrizia Serra</i>                                                                         |
| 13:00 – 13:15                          | Analysis of the willingness to shift to electric vehicles: critical factors and perspectives<br><i>Antonio Comi, Umberto Crisalli, Olesia Hriekova, Alessandro Palmoni</i>                       |
| 13:15 – 13:30                          | Traffic control measures for the improvement of the private road transport environmental impact<br><i>Andrea Gemma, Tina Onorato and Ernesto Cipriani</i>                                        |

Thanks to:

|                                                                                                                                                                                                                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Poster session: Mobility and traffic</b>                                                                                                                                                                                                      |  |
| Room: Azalea                                                                                                                                                                                                                                     |  |
| Chair: Eleonora Sottile                                                                                                                                                                                                                          |  |
| Factors Impacting Shared Micro-Mobility in Rome: Spatio-Temporal Analysis via Data Mining with GBFS<br><i>Giovanni Tuveri, Eleonora Sottile, Raffaele Loi</i>                                                                                    |  |
| An equity indicator for vehicle relocation in shared micromobility systems<br><i>Simona De Bartolomeo, Leonardo Caggiani, Michele Ottomanelli</i>                                                                                                |  |
| Analyzing the individual factors determining the usage duration of an active GPS tracker app with the Exponentiated Discrete Weibull Distribution Model<br><i>Massimiliano Bez, Eleonora Sottile, Tariq Naveed</i>                               |  |
| Virtual reality for assessing cycling propensity in hypothetical physical infrastructure project scenarios<br><i>Eleonora Sottile, Lorenzo Matta, Andrea Manunza, Emanuel Muroi</i>                                                              |  |
| Evaluating merge strategies for efficient traffic management at on-ramps<br><i>Mario Marinelli, Nadia Giuffrida, Salvatore Viscio, Mario Binetti, Roberta Di Pace, Franco Filippi, Stefano de Luca</i>                                           |  |
| A Hybrid Traffic Flow Model for Large-Scale Applications in the Federated Networks Context<br><i>Tesone A., Imran W., Storani F., Di Pace R., Pariota L., de Luca S., Bifulco G. N.</i>                                                          |  |
| Enhancing Policy Evaluation of Road Network Interventions - A Framework for Modeling Uncertainty in Traffic Flow Data<br><i>Riccardo Ceccato, Gregorio Gecchele, Armando Caprini, Riccardo Rossi, Massimiliano Gastaldi</i>                      |  |
| Logistics facilities location choice modelling: effects of zoning regulation and constraints<br><i>Valentina Rizzello, Francesco Paolo Nanni Costa, Luca Mantecchini, Caterina Malandri</i>                                                      |  |
| A rapid diagnosis system for the analysis and control of traffic areas<br><i>Chiara Colombaroni, Gaetano Fusco, Mohadeseh Pasha, Natalia Isaenko</i>                                                                                             |  |
| Activity-based demand models estimated using innovative smart-app tools<br><i>Marco Trolese, Pierluigi Coppola</i>                                                                                                                               |  |
| Analysis, characterization and modeling of drivers charging preferences in an urban public network<br><i>Francesca Bruno, Stefano de Luca, Maria Pia Valentini, Valentina Conti, Natascia Andrenacci</i>                                         |  |
| A Comparative Analysis of Econometric and Machine Learning Models for Predicting Fare Evasion Frequency: A Case Study in Cagliari, Italy<br><i>Roberto Ventura, Giulio Maternini, Alessandro Olivo, Massimo di Francesco, Benedetto Barabino</i> |  |
| Integrated micro and macro simulation of multimodal hubs<br><i>Luigi Castagna, Fulvio Silvestri, Pierluigi Coppola</i>                                                                                                                           |  |

**13:30 – 14:30 | Light lunch**

**15:00 – 16:30 | Parallel sessions**

|                               |                                                                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Local Public Transport</b> |                                                                                                                                                                                                 |
| Room: Begonia                 |                                                                                                                                                                                                 |
| Chair: Francesco Russo        |                                                                                                                                                                                                 |
| 15:00 – 15:15                 | Normal or new normal? Impacts of COVID-19 pandemic on the users' public transport perceived quality<br><i>Ilaria Henke, Armando Carteni, Laura Eboli, Antonella Falanga, Gabriella Mazzulla</i> |

Thanks to:

|               |                                                                                                                                                                                                                                                          |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:15 – 15:30 | Contract models for public transport services: An application to the case of the Province of Foggia<br><i>Marilisa Botte, Francesca Iannicelli, Luca D’Acierno</i>                                                                                       |
| 15:30 – 15:45 | A new methodology for the definition of the LAS for the urban public transport<br><i>Stefano Carrese, Andrea Gemma, Marco Petrelli</i>                                                                                                                   |
| 15:45 – 16:00 | Demand-responsive Services for People and Freight: An Analysis of the Best Practices<br><i>Samuele Ennas, Mauro Coni, Francesco Contu, Massimo Di Francesco, Chiara Garau, Enrico Gorgone, Francesca Maltinti</i>                                        |
| 16:00 – 16:15 | Design, implementation and monitoring of a Demand Responsive Transport service for student night leisure transfers: The case study of University of Trieste<br><i>Caterina Caramuta, Alessia Grosso, Giovanni Longo, Chiara Ricchetti, Lucia Rotaris</i> |
| 16:15 – 16:30 | Evaluation of tourist accessibility through multimodal cycling-public transport in the metropolitan area<br><i>Fulvio Morgese, Simona De Bartolomeo, Mario Binetti, Leonardo Caggiani</i>                                                                |

|                                  |                                                                                                                                                                                                                                            |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Traffic data and modeling</b> |                                                                                                                                                                                                                                            |
| Room: Gardenia                   |                                                                                                                                                                                                                                            |
| Chair: Roberta Di Pace           |                                                                                                                                                                                                                                            |
| 15:00 – 15:15                    | Data-driven investigation of traffic spatial correlation through functional data analysis<br><i>Fulvio Simonelli, Fabio Centofanti, Antonio Lepore, Luigi Pariota, Vittorio Marzano, and Biagio Palumbo</i>                                |
| 15:15 – 15:30                    | Large-Scale Microscopic Traffic Demand Generation Modelling: A Literature Review and Application of Potential Approaches<br><i>Ngoc An Nguyen, Joerg Schweizer, Federico Rupi</i>                                                          |
| 15:30 – 15:45                    | Variance-Based Sensitivity Analysis for a Dynamic Traffic Model Calibration<br><i>Natalia Isaenko, Filippo Carrese, Chiara Colombaroni, Gaetano Fusco, Zahra Lahijanian</i>                                                                |
| 15:45 – 16:00                    | Multi-source methodology for traffic analysis zones definition based on combined floating car and remote sensing data<br><i>Marisdea Castiglione, Federico Gallo, Martina Pastorino, Gabriele Moser, Marialisa Nigro, and Nicola Sacco</i> |
| 16:00 – 16:15                    | Exploiting floating car data for adjusting the charging demand of electric vehicles in cities<br><i>Lorenzo Sica, Francesco Deflorio, Angela Carboni</i>                                                                                   |
| 16:15 – 16:30                    | Quantifying the Impact of Traffic Sensor Settings on Short Period Traffic Count Data Quality<br><i>Gregorio Gecchele, Riccardo Ceccato, Armando Caprini, Riccardo Rossi, Massimiliano Gastaldi</i>                                         |

**16:30 – 17:00 | Coffee break**

**17:00 – 17:30 | Plenary lecture** (Room: Begonia + Azalea): Prof. Elisabetta Cherchi (Newcastle University) - “Modeling behavior in travel choices: what future research developments”

Thanks to:

**17:30 – 18:30 | Plenary session** (Room: Begonia + Azalea): Prof. Ennio Cascetta presents his book “*La rivoluzione della mobilità sostenibile parte dalle autostrade – sicure, digitali, decarbonizzate*”

Round table with Ennio Cascetta, Bruno Dalla Chiara, Gabriella Mazzulla, Italo Meloni, Stefano Carrese

**20:30 | Gala dinner**

## Friday, June 14, 2024

**08:30 - 09:15 | Registration**

**09:15 - 10:00 | Parallel sessions**

| <b>MAAS</b>         |                                                                                                                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room: Begonia       |                                                                                                                                                                                                                             |
| Chair: Italo Meloni |                                                                                                                                                                                                                             |
| 09:15 – 09:30       | Mobility as a Service: insights from three pilot studies across different Italian settings<br><i>Italo Meloni, Giuseppe Musolino, Francesco Piras, Corrado Rindone, Francesco Russo, Eleonora Sottile, Antonino Vitetta</i> |
| 09:30 – 09:45       | Mobility-as-a-Service (MaaS) for university communities: evidences from two Italian case studies<br><i>Fulvio Silvestri, Ilaria Delponte, Valentina Costa, Luca Pastorelli and Pierluigi Coppola</i>                        |
| 09:45 – 10:00       | Exploring factors influencing the adoption of Mobility-as-a-Service (MaaS) in Sardinia<br><i>Francesco Piras, Ricardo Daziano, Gianfranco Fancello, Eleonora Sottile</i>                                                    |

| <b>Technical-economic evaluations for transport systems</b> |                                                                                                                                                                                                                  |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room: Gardenia                                              |                                                                                                                                                                                                                  |
| Chair: Federico Rupi                                        |                                                                                                                                                                                                                  |
| 09:15 – 09:30                                               | Towards the electrification of private and corporate vehicles: technical-economic break-even between recharging and refuelling<br><i>Valterio Grilletti, Bruno Dalla Chiara, Ezio Spessa, Michela Pellicelli</i> |
| 09:30 – 09:45                                               | From skepticism to support: exploring the evolution of user acceptability and willingness-to-pay for Autonomous Vehicles (AVs) bus services<br><i>Armando Carteni, Mariarosaria Picone</i>                       |
| 09:45 – 10:00                                               | Macroscopic economic feasibility analysis of PRT networks based on capacity limited demand estimations<br><i>Joerg Schweizer, Giacomo Bernieri, Federico Rupi</i>                                                |

Thanks to:



### 10:00 – 11:00 | Parallel sessions

| <b>Innovation in transport</b> |                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room: Begonia                  |                                                                                                                                                            |
| Chair: Mariano Gallo           |                                                                                                                                                            |
| 10:00 – 10:15                  | Analysis of the impact of CAVs platoon breakdown in mixed traffic flow<br><i>Xuelian Wu, Maria Nadia Postorino and Luca Mantecchini</i>                    |
| 10:15 – 10:30                  | Enhancing CCAM services Deployment: Augmented Co-Simulation Framework<br><i>Andrea Marchetta, Angelo Coppola, Gennaro Nicola Bifulco</i>                   |
| 10:30 – 10:45                  | Devising a PKI solution for CCAM deployment on highways<br><i>Andrea Marchetta, Angelo Coppola, Dario Ferrillo, Claudio Miccio, Gennaro Nicola Bifulco</i> |
| 10:45 – 11:00                  | Optimal location of refuelling stations for hydrogen-powered freight vehicles<br><i>Mariano Gallo</i>                                                      |

| <b>Investigating safety and human factors in transport systems</b> |                                                                                                                                                                                                                    |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room: Gardenia                                                     |                                                                                                                                                                                                                    |
| Chair: Riccardo Rossi                                              |                                                                                                                                                                                                                    |
| 10:00 – 10:15                                                      | Exploring Driving Fatigue in European professional taxi, bus and truck drivers<br><i>Usami Davide Shingo</i>                                                                                                       |
| 10:15 – 10:30                                                      | Calibration of stress, fatigue and productivity measures for port crane operators<br><i>Daniel Mark Vitiello, Mattia Porta, Patrizia Serra, Gianfranco Fancello</i>                                                |
| 10:30 – 10:45                                                      | Being safe in both simulated and real-world environments? A full immersion Virtual Reality training method for young pedestrians<br><i>Andrea Baldassa, Federico Orsini, Massimiliano Gastaldi, Riccardo Rossi</i> |
| 10:45 – 11:00                                                      | Incorporating human factors in car-following models: a model credibility assessment framework<br><i>Vincenzo Punzo, Davide Iannelli, Andrea Saltelli, Marcello Montanino</i>                                       |

### 11:00 - 11:30 | Coffee break

### 11:30 - 12:30 | Parallel sessions

| <b>Freight transport</b>  |                                                                                                                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room: Begonia             |                                                                                                                                                                                                                      |
| Chair: Angela Di Febbraro |                                                                                                                                                                                                                      |
| 11:30 – 11:45             | Managing freight transport in multi-modal networks considering the Physical Internet framework<br><i>Federico Gallo, Alireza Shahedi, Mahnam Saeednia, Angela Di Febbraro, and Nicola Sacco</i>                      |
| 11:45 – 12:00             | How much freight is really transported on our roads? A data-driven estimate of freight road transport demand in Italy<br><i>Vittorio Marzano, Fulvio Simonelli, Francesco Grasso, Daniela Tocchi, Ennio Cascetta</i> |

Thanks to:



|               |                                                                                                                                                                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12:00 – 12:15 | A new freight transport incentive to achieve modal shift targets: methodology and application to Italy<br><i>Fulvio Simonelli, Claudio Sterle, Adriano Masone, Daniela Tocchi, Fiore Tinessa, Andrea Mancuso, Andrea Papola, Vittorio Marzano</i> |
| 12:15 – 12:30 | The role of the global chokepoints in reshaping the supply chain: controversial implications of the Red Sea crisis on the Port of Trieste<br><i>Giuseppe Borruso, Caterina Caramuta, Andrea Gallo, Alessia Grosso, Giovanni Longo</i>             |

|                                        |                                                                                                                                                                                                                                                              |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Traffic modeling and management</b> |                                                                                                                                                                                                                                                              |
| Room: Gardenia                         |                                                                                                                                                                                                                                                              |
| Chair: Gaetano Fusco                   |                                                                                                                                                                                                                                                              |
| 11:30 – 11:45                          | Dynamic Variable Speed Limit Control on Motorway Networks<br><i>Saeed Mansouryar, Chiara Colombaroni, Gaetano Fusco, Natalia Isaenko, Kaveh Shojaei</i>                                                                                                      |
| 11:45 – 12:00                          | Calibration of Hybrid Traffic Flow Model: methods analysis and comparison<br><i>Facundo Storani, Roberta Di Pace, Shi-Teng Zheng, Rui Jiang</i>                                                                                                              |
| 12:00 – 12:15                          | Real-time feedback systems for Manage-How-You-Drive insurance schemes: analysis on effectiveness and retention<br><i>Federico Orsini, Giulia De Ceta, Francesca Freuli, Leandro L. Di Stasi, Mariaelena Tagliabue, Massimiliano Gastaldi, Riccardo Rossi</i> |
| 12:15 – 12:30                          | On minimizing the impact on traffic of maintenance work zones in a highway network<br><i>Mohammad Abbasi, Muhammad Tabish Bilal, Alice Consilvio, Davide Giglio, Paula Lopez Arevalo</i>                                                                     |

## 12:30 - 13:15 | Parallel sessions

|                       |                                                                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rail transport</b> |                                                                                                                                                                                                                                                           |
| Room: Begonia         |                                                                                                                                                                                                                                                           |
| Chair: Luca D’Acierno |                                                                                                                                                                                                                                                           |
| 12:30 – 12:45         | Resilience indicators in the case of railway transportation systems: An application to the case of Line 1 of the Naples metro system<br><i>Luca De Matteis, Marilisa Botte, Rosario Stefanelli, Luca D’Acierno</i>                                        |
| 12:45 – 13:00         | Innovations in on-board and wayside condition monitoring systems to support railway business<br><i>Riccardo Licciardello, Cristiana Piccioni, Cristiano Marinacci, Sina S. Arabani, Miad Farokhsiar, Stefano Ricci, Anna Maria Gisario, Nicola Roveri</i> |
| 13:00 – 13:15         | Next-generation freight intermodal trains: an effective way to increase rail share and sustainability of inland transportation<br><i>Claudia Caballini, Simona Gurri, Erika Olivari, Bruno Dalla Chiara</i>                                               |

Thanks to:

| <b>Last Mile Logistics</b> |                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Room: Gardenia             |                                                                                                                                                                                                     |
| Chair: Marino Lupi         |                                                                                                                                                                                                     |
| 12:30 – 12:45              | A new last mile freight transport system based on platoons of automated vehicles and dynamic management of split up locations<br><i>Marino Lupi, Daniele Conte, Alessandro Farina</i>               |
| 12:45 – 13:00              | Assessment of possible last-mile logistics configurations using drones in the mountain context: A case study in the North-Eastern Italy<br><i>Caterina Caramuta, Alessia Grosso, Giovanni Longo</i> |
| 13:00 – 13:15              | Exploring Heuristic Algorithms to Solve the Traveling Salesman Problem for Real-world Applications<br><i>Nicola Ippolito, Guido Gentile, Lory Michelle Bresciani Miristice</i>                      |

**13:15 – 14:30 | Light lunch**

Thanks to:



GreenShare

