



**MOBILITY AND TRANSPORT**  
**MULTIMODALITY, SUSTAINABILITY, RESILIENCE**

**PROGRAM**

PROGRAM AT A GLANCE		
Wednesday, June 15, 2022	Thursday, June 16, 2022	Friday, June 17, 2022
	08:30-09:00 Registration	08:30-09:00 Registration
	09:00-10:00 Scientific sessions TRAFFIC MONITORING TRANSPORT SUSTAINABILITY I	09:00-10:00 Scientific sessions FREIGHT TRANSPORT II ROAD SAFETY
	10:00-10:30 Coffee break	10:00-10:30 Coffee break
	10:30-11:30 Keynote speech CHALLENGES IN MOBILITY AND TRANSPORT I	10:30-11:30 Keynote speeches CHALLENGES IN MOBILITY AND TRANSPORT II
	11:30-12:50 Scientific sessions PUBLIC TRANSPORT TRANSPORT SUSTAINABILITY II	11:30-12:50 Scientific sessions COVID-19 IMPACT ANALYSIS AUTONOMOUS AND ELECTRIC VEHICLES
13:30-14:30 Registration		12:50-13:00 Farewell speech
14:30-14:45 Welcome speech	12:50-14:30 Lunch	13:00-14:30 Lunch
14:45-16:50 Special session YOUNG RESEARCHERS	14:30-16:10 Scientific sessions SMART ROADS USERS BEHAVIOUR AND DEMAND ESTIMATION	
16:50-17:20 Coffee break	16:10-16:40 Coffee break	
	16:40-17:40 Scientific sessions FREIGHT TRANSPORT I TRANSPORT SUSTAINABILITY III	
18:00-20:00 General assembly of SIDT members		
	20:30-23:00 Gala dinner	

# WEDNESDAY, June 15th

13:30 – 14:30	REGISTRATION	
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14:30 – 14:45	WELCOME SPEECH	San Salvatore
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14:45 – 16:50	SPECIAL SESSION	San Salvatore
YOUNG RESEARCHERS		
14:45 ► 15:10 San Salvatore	Andreea Dumitru Analysis and development of pedestrian flow dynamics	
15:10 ► 15:35 San Salvatore	Marisdea Castiglione Investigating mobility patterns trough crowd-sourced activity data	
15:35 ► 16:00 San Salvatore	Andrea Baldassa, Federico Orsini, Riccardo Ceccato How do telework and COVID-19 impact MaaS adoption? Evidence from Padua, Italy	
16:00 ► 16:25 San Salvatore	Francesca Bruno Investigating the combination of transtheoretical and the theory of planned behavior paradigms: an application to vehicle type choice behavior	
16:25 ► 16:50 San Salvatore	Rosita De Vincentis, Vincenza Rosati A data-driven approach for the combined study of mobility patterns and the built environment: an application to the case study of Brescia, Catania and Salerno (Italy)	

16:50 – 17:20	COFFEE BREAK	San Salvatore
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18:00 – 20:00	GENERAL ASSEMBLY OF SIDT MEMBERS	San Salvatore
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# THURSDAY, June 16th

08:30 – 09:00	REGISTRATION
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09:00 – 10:00	SCIENTIFIC SESSION	Room 4H
TRAFFIC MONITORING		
09:00 ► 09:20 Room 4H	Chiara Colombaroni, Gaetano Fusco, Natalia Isaenko, Marisdea Castiglione, Ernesto Cipriani, Andrea Gemma, Marialisa Nigro <b>A traffic model architecture for large scale road network monitoring and control</b>	
09:20 ► 09:40 Room 4H	Gregorio Gecchele, Riccardo Ceccato, Riccardo Rossi, Massimiliano Gastaldi <b>Application of Fuzzy Delphi Analytical Hierarchy Process for a traffic monitoring program: a case study in Venice</b>	
09:40 ► 10:00 Room 4H	Andrea Gemma, Livia Mannini, Ernesto Cipriani, Umberto Crisalli <b>Improving Urban Travel Time Estimation Using Gaussian Mixture Models</b>	

09:00 – 10:00	SCIENTIFIC SESSION	Room 5H
TRANSPORT SUSTAINABILITY I		
09:00 ► 09:20 Room 5H	Orlando Marco Belcore, Antonio Polimeni, Antonio Comi, Massimo Di Gangi <b>E-bike and sustainable transport systems: empirical evidence</b>	
09:20 ► 09:40 Room 5H	Daniele Giubergia, Giovanni Tuveri, Francesco Piras, Eleonora Sottile, Italo Meloni <b>Assessing the impact of normative messages in encouraging the use of sustainable mobility. An experimental study</b>	
09:40 ► 10:00 Room 5H	Luigi Pio Prencipe, Aleksandra Colovic, Leonardo Caggiani, Michele Ottomanelli <b>Moving towards sustainable mobility: a network design model for a fair road capacity distribution</b>	

10:00 – 10:30	COFFEE BREAK	Giardino/Porticato
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10:30 – 11:30	KEYNOTE SPEECH	Room 5H (& 4H streaming)
CHALLENGES IN MOBILITY AND TRANSPORT I		
10:30 ► 11:30 Room 5H (& 4H streaming)	Ennio Cascetta <b>The seventh transport revolution and the new challenges of sustainable mobility</b>	

11:30 – 12:50	SCIENTIFIC SESSION	Room 4H
PUBLIC TRANSPORT		
11:30 ► 11:50 Room 4H	Marco Petrelli, Stefano Carrese, Ernesto Cipriani, Andrea Gemma, Livia Mannini <b>A Bus Network Design model under demand variation: a case study for the management of Rome bus network</b>	

11:50 ► 12:10 Room 4H	Marco Bocciolone, Pierluigi Coppola, Francesco De Fabiis <b>Economic and environmental Life-Cycle Assessment (LCA) of bus fleet transition towards clean-fuel</b>
12:10 ► 12:30 Room 4H	Valeria J. Aranda Salgado, Roberto Notari, Lorenzo Mussone <b>Evaluation of Robustness in underground networks</b>
12:30 ► 12:50 Room 4H	Nadia Giuffrida, Leonardo Caggiani, Mario Binetti, Michele Ottomanelli <b>A vertical equity indicator for public transport network design in urban areas</b>

11:30 – 12:50		SCIENTIFIC SESSION	Room 5H
TRANSPORT SUSTAINABILITY II			
11:30 ► 11:50 Room 5H	Mario Marinelli, Mariano Gallo <b>A GIS-based hybrid optimization model for the dynamic routing of vehicles in flexible mobility services</b>		
11:50 ► 12:10 Room 5H	Elisa Bertolini, Caterina Caramuta, Lorenzo Castelli, Giovanni Longo <b>May info-mobility solutions contribute to increase sustainable transport connectivity? Lessons learned from E-Chain project</b>		
12:10 ► 12:30 Room 5H	Facundo Storani, Luca Di Costanzo, Luigi Pariota <b>Quantifying transportation system contributions to urban air quality by means of Land Use Regression models</b>		
12:30 ► 12:50 Room 5H	Maria Vittoria Corazza, Paola Di Mascio, Antonio Musso <b>Air pollution at airport areas: magnitude of the phenomenon and measures to mitigate it</b>		

12:50 – 14:30	LUNCH	Giardino/Porticato
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14:30 – 16:10		SCIENTIFIC SESSION	Room 4H
SMART ROADS			
14:30 ► 14:50 Room 4H	Marino Lupi, Daniele Conte, Alessandro Farina <b>The assessment of the “acoustic capacity” of road infrastructures</b>		
14:50 ► 15:10 Room 4H	Chiara Colombaroni, Gaetano Fusco, Natalia Isaenko, Zahra Lahijanian <b>An Aggregate Calibration of Traffic Forecasting Tools for Smart Roads Implementation</b>		
15:10 ► 15:30 Room 4H	Roberto Ventura, Benedetto Barabino, David Vetturi, Giulio Maternini <b>Monitoring exceptional vehicles traffic on bridges by Weight In Motion (WIM) systems. The case study of Brescia.</b>		
15:30 ► 15:50 Room 4H	Alice Consilvio, Angela Di Febbraro, Nicola Sacco, Luca Bartoccini <b>Optimal planning of maintenance work zones to mitigate the impact on highway traffic flow</b>		

15:50 ► 16:10 Room 4H	Saeed Mansouryar, Chiara Colombaroni, Gaetano Fusco, Natalia Isaenko, Cristiano Massaroni, Riccardo Gobbo, Andrea Di Luca <b>A Deep Reinforcement Learning Approach for Intelligent Traffic Light Control</b>
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14:30 – 16:10		SCIENTIFIC SESSION	Room 5H
USERS BEHAVIOUR AND DEMAND ESTIMATION			
14:30 ► 14:50 Room 5H	Fiore Tinessa, Vittorio Marzano, Fulvio Simonelli, Prateek Bansal, Andrea Papola <b>Assessing tastes, mathematical form of utility, substitution pattern and distribution of random terms with latent class structures at an individual level</b>		
14:50 ► 15:10 Room 5H	Francesco Piras, Eleonora Sottile, Daniele Giubergia, Giovanni Tuveri, Italo Meloni <b>How much of random taste heterogeneity in level of service variables is explained by psycho-social factors? Evidence from three case studies</b>		
15:10 ► 15:30 Room 5H	Gabriele D’Orso, Alessandro Emilio Capodici, Marco Migliore <b>An RP/SP survey to estimate the potential demand for a Demand Responsive Transport System in a suburb area of Palermo</b>		
15:30 ► 15:50 Room 5H	Giovanni Tuveri, Francesco Piras, Eleonora Sottile, Italo Meloni <b>Estimating value of travel time: a comparison between discrete choice models and artificial neural networks</b>		
15:50 ► 16:10 Room 5H	Matteo Brunelli, Chiara Caterina Ditta, Maria Nadia Postorino <b>SP surveys to estimate UAM airport shuttle demand</b>		

16:10 – 16:40	COFFEE BREAK	Giardino/Porticato
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16:40 – 17:40		SCIENTIFIC SESSION	Room 4H
FREIGHT TRANSPORT I			
16:40 ► 17:00 Room 4H	Claudia Caballini, Stefano Cangelosi, Angela Carboni, Francesco Paolo Deflorio <b>Micro-simulation of traffic flows in container terminals to face different management strategies and unpredictable events.</b>		
17:00 ► 17:20 Room 4H	Luca Mantecchini, Caterina Malandri, Filippo Paganelli, Maria Nadia Postorino <b>Effects of Automated Guided e-Vehicles on Ro-Ro Port Operations: Environmental and Operational Aspects</b>		
17:20 ► 17:40 Room 4H	Caterina Caramuta, Giovanni Longo <b>War impacts and system resilience in the logistics chain: A case study in the North Adriatic Region</b>		

16:40 – 17:40		SCIENTIFIC SESSION	Room 5H
TRANSPORT SUSTAINABILITY III			
16:40 ► 17:00 Room 5H	Ennio Cascetta, Armando Cartenì, Ilaria Henke <b>The economic, social and transportation impacts of ten years of highspeed railways competitive market in Italy</b>		

17:00 ► 17:20 Room 5H	Angela Romano, Daniela Tocchi, Fiore Tinessa, Vittorio Marzano, Fulvio Simonelli <b>Analysis of the carbon footprint of freight transport in the mass market retail sector: a case study in Campania (Italy)</b>
17:20 ► 17:40 Room 5H	Agostino Nuzzolo, Paolo Beria <b>Cost-benefit analysis: (numerical) comparison of consumer surplus computation methods</b>

20:30 – 23:00	<b>GALA DINNER</b>	Acquario di Genova
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# FRIDAY, June 17th

08:30 – 09:00	REGISTRATION
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09:00 – 10:00	SCIENTIFIC SESSION	Room 4H
FREIGHT TRANSPORT II		
09:00 ► 09:20 Room 4H	Simona Gurri, Jesús Molina Martínez, Bruno Dalla Chiara <b>Specific energy consumption in air cargo and rail freight transport: a comparative assessment based on new technological solutions to foster a more sustainable logistics</b>	
09:20 ► 09:40 Room 4H	Filippo Carrese, Chiara Colombaroni, Gaetano Fusco <b>Accessibility Analysis of Urban Freight Distribution with Electric Vehicles incorporating E-VRP</b>	
09:40 ► 10:00 Room 4H	Daniela Tocchi, Christa Sys, Andrea Papola, Fiore Tinessa, Fulvio Simonelli, Vittorio Marzano <b>Hypergraph-based centrality metrics for maritime container service networks: A worldwide application</b>	

09:00 – 10:00	SCIENTIFIC SESSION	Room 5H
ROAD SAFETY		
09:00 ► 09:20 Room 5H	Vincenzo Punzo, Gaetano Zaccaria, Marcello Montanino <b>Metastability and crashes in car-following dynamics</b>	
09:20 ► 09:40 Room 5H	Sina Shaffiee Haghshenas, Giuseppe Guido, Vittorio Astarita, Alessandro Vitale <b>Prediction of Level of Road Crash Severity using a New Hybrid Grey Wolf optimization-based Artificial Neural Network</b>	
09:40 ► 10:00 Room 5H	Federico Orsini, Mariana Batista, Bernhard Friedrich, Massimiliano Gastaldi, Riccardo Rossi <b>Before-after safety analysis of a shared space implementation</b>	

10:00 – 10:30	COFFEE BREAK	Giardino/Porticato
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10:30 – 11:30	KEYNOTE SPEECHES	Room 5H (& 4H streaming)
CHALLENGES IN MOBILITY AND TRANSPORT II		
10:30 ► 11:00 Room 5H (& 4H streaming)	Antonella Trombetta <b>TBD</b>	
11:00 ► 11:30 Room 5H (& 4H streaming)	Giovanni Bocchetti <b>TBD</b>	

11:30 – 12:50		SCIENTIFIC SESSION	Room 4H
COVID-19 IMPACT ANALYSIS			
11:30 ► 11:50 Room 4H	Eleonora Sottile, Francesco Piras, Giovanni Tuveri, Italo Meloni <b>How did the Covid-19 pandemic change women's travel behaviour? A three-wave panel survey in Italy</b>		
11:50 ► 12:10 Room 4H	Gianfranco Fancello, Antonio Comi, Patrizia Serra, Francesco Piras, Serena Sedda <b>Shopping mobility after the covid-19 pandemic: new profiles of customers' behaviors</b>		
12:10 ► 12:30 Room 4H	Caterina Caramuta, Cristian Giacomini, Giovanni Longo, Carlo Poloni <b>Managerial decisions to recover from Covid-19 disruption: A multi-objective optimization approach applied to public transport operators</b>		
12:30 ► 12:50 Room 4H	Gianfranco Fancello, Patrizia Serra, Daniel Mark Vitiello <b>European air transport market performance during the covid-19 pandemic: a PCA-DEA application to airline companies</b>		

11:30 – 12:50		SCIENTIFIC SESSION	Room 5H
AUTONOMOUS AND ELECTRIC VEHICLES			
11:30 ► 11:50 Room 5H	Roberta Di Pace, Facundo Storani, Rui Jiang, Stefano de Luca <b>Global consistency in hybrid traffic flow models: networks applications and analysis in mixed traffic flow with connected and automated vehicles</b>		
11:50 ► 12:10 Room 5H	Pierluigi Coppola, Fulvio Silvestri, Francesco De Fabiis <b>Hybrid choice modeling analysis of passengers' willingness-to-adopt autonomous driving.</b>		
12:10 ► 12:30 Room 5H	Filippo Carrese, Chiara Colombaroni, Gaetano Fusco, Mostafa Mohammadi, Golman Rahmanifar, Maria Pia Valentini, Valentina Conti, Matteo Corazza <b>A Simulation-Optimization Framework for Electric Vehicles Routing Problem with Time Window and Charging Station</b>		
12:30 ► 12:50 Room 5H	Davide La Gamba, Francesco Paolo Deflorio, Luis Montesano, Angela Carboni, Miriam Pirra, Maurizio Arnone <b>Modeling users' preference in charging electric vehicles</b>		

12:50 – 13:00	FAREWELL SPEECH	Room 5H (& 4H streaming)
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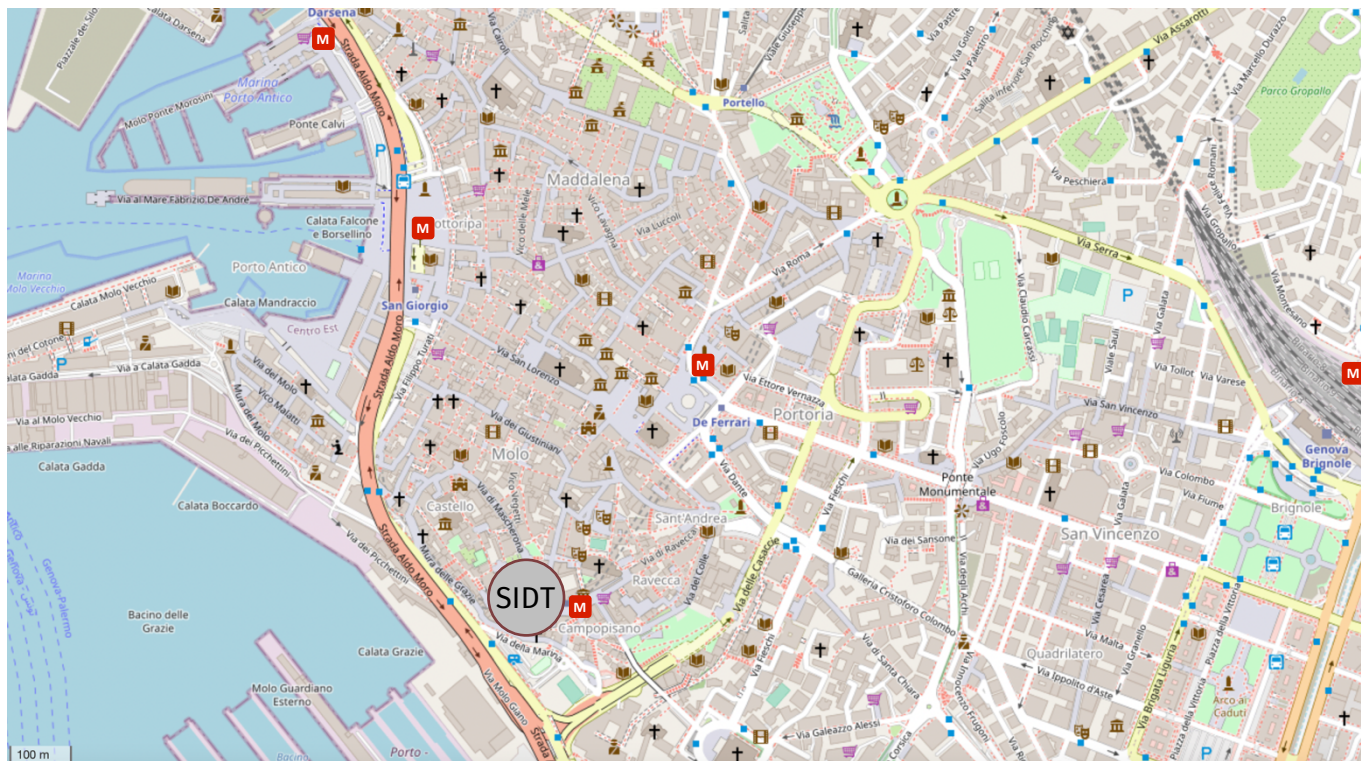
13:00 – 14:30	LUNCH	Giardino/Porticato
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# VENUE

UNIVERSITÀ DI GENOVA – DIPARTIMENTO DI ARCHITETTURA E DESIGN

Stradone Sant'Agostino 37 – 16123 Genova (GE)



1 Room 4H – Room 5H – Giardino/Porticato

2 San Salvatore