

Date	Section	Day time	Location	Presentation Order by Day	Authors	Title
Tuesday, 16 September 2025 9:00-13:00	Morning	UniSA	Chiara Colombaroni, Gaetano Fusco, Natalia Isaenko, Filippo Carrese, Roberta Di Pace, Stefano de Luca, Facundo Storani,	1	Behnood Baiky and Saeed Mansouryar	Dynamic Simulation Framework to Assess the impact ofVariable Speed Limit Strategies
Tuesday, 16 September 2025 9:00-13:00	Morning	UniSA	Giulio Erberto Cantarella, Orlando Giannattasio and	2	Antonino Vitetta	Transportation network risk analysis through stochasticlink fundamental flow diagram
Tuesday, 16 September 2025 9:00-13:00	Morning	UniSA	Nikolas Sacchi and Antonella Ferrara	3		On the Impact of Platoons of Controlled Connected andAutomated Vehicles on Freeway Traffic Dynamics
Tuesday, 16 September 2025 9:00-13:00	Morning	UniSA	Andrea Gemma, Natalia Isaenko, Ernesto Cipriani, Chiara Colombaroni and Gaetano Fusco	4		Online Application of Short-Term Traffic PredictionIntegrating Simulation-Based Dynamic Traffic Assignment andBayesian Filtering
Tuesday, 16 September 2025 9:00-13:00	Morning	UniSA	Maria Nadia Postorino, Luca Mantecchini, Caterina Malandri,	5	Roberta Di Pace and Stefano De Luca	A performance-impact based strategy for multi-level speedharmonization in mixed traffic conditions
Tuesday, 16 September 2025 9:00-13:00	Morning	UniSA	Mario Marinelli, Salvatore Viscio, Nadia Giuffrida, Mario	6	Binetti, Roberta Di Pace, Franco Filippi and Stefano de Luca	Optimizing Traffic Flow in Connected and Autonomous VehicleEnvironments through Lane Drop Strategies
Tuesday, 16 September 2025 9:00-13:00	Morning	UniSA	Hye-young Tak and Hwasoo Yeo	7		Quantifying Traffic State Vulnerability at HighwayBottleneck Networks Using Lyapunov Exponents
Tuesday, 16 September 2025 9:00-13:00	Morning	UniSA	Jake Robbennolt, Debojjal Bagchi and Stephen Boyles	8		Localized Queue Spillback Modeling for Dynamic TrafficAssignment with Uncertain Demand
Tuesday, 16 September 2025 9:00-13:00	Morning	UniSA	Shi-Teng Zheng, Jian Shang and Rui Jiang	9		Experimental study on characteristics of autonomousvehicles under different loads
Tuesday, 16 September 2025 9:00-13:00	Morning	UniSA	Zerun Liu, Zilin Bian, Fan Zuo, Dachuan Zuo and Kaan Ozbay	10		Integrating Dynamic Traffic Assignment in a Digital Twinto Support Intelligent Traffic Management Under Disruptions
Tuesday, 16 September 2025 9:00-13:00	Morning	UniSA	Marisdea Castiglione and Marialisa Nigro	11		Intelligent Video Analytics for I2V communication: anexperimental approach based on dynamic traffic assignment
Tuesday, 16 September 2025 14:30-18:30	Afternoon	UniSA	Kejun Du, Qiru Ma, Enoch Lee and Hong Lo	12		Efficient Gradient-Based Calibrations with A DifferentiableDynamic Traffic Assignment (DTA) Simulation Model byIterative Backpropagation (IB) And Auto-Differentiation
Tuesday, 16 September 2025 14:30-18:30	Afternoon	UniSA	Grzegorz Jamróz, Gunnar Flötteröd, Rafał Kucharski and	13	David Watling	Coexistence of human drivers and CAVs - behavioral modelsand long-term properties
Tuesday, 16 September 2025 14:30-18:30	Afternoon	UniSA	Sangkuk Kim and Simon Oh	14		Population Synthesis using Deep Generative Models forAgent-based Simulations
Tuesday, 16 September 2025 14:30-18:30	Afternoon	UniSA	Prakash Ranjan, Fatemeh Fakhrhoosavi, Krishna M. Gurumurthy, Abdelrahman Ismael and Nazmul A. Khan	15		Agent-Based Simulation Considering Parking Search andChoice Behavior Using Bayesian Inference
Tuesday, 16 September 2025 14:30-18:30	Afternoon	UniSA	Gunnar Flötteröd	16		An operational alternative to origin/destination matrices
Tuesday, 16 September 2025 14:30-18:30	Afternoon	UniSA	Marisdea Castiglione, Guido Cantelmo, Ernesto Cipriani and	17	Marialisa Nigro	Introducing the Flex-GLS Framework: HarnessingCrowd-Sourced Flexibility Data to Enhance Accuracy inDynamic Origin-Destination Matrices Estimation
Tuesday, 16 September 2025 14:30-18:30	Afternoon	UniSA	Jean-Patrick Lebacque and Megan Khoshyaran	19		Dynamic traffic assignment in a trip-based multi-reservoirmodel
Tuesday, 16 September 2025 14:30-18:30	Afternoon	UniSA	Mostafa Ameli, Sergio Batista, Monica Menendez and Jean	20	Patrick Lebacque	A Projection-Based Dynamic System Optimum Emulated usingMacroscopic Fundamental Diagram dynamics on regionalnetworks
Tuesday, 16 September 2025 14:30-18:30	Afternoon	UniSA	Zihan Wan and Wei Ma	21		Probabilistic Inference of Dynamic Traffic Assignment Usinga Generalized Bathtub Model
Tuesday, 16 September 2025 14:30-18:30	Afternoon	UniSA	Alessio Tesone, Waheed Imran, Luigi Pariota, Facundo Storani,	22	Roberta Di Pace, Stefano de Luca, Gennaro Nicola Bifulco	Experiments concerning Macroscopic Fundamental Diagram-based Multi-scale Modelling of Traffic Flow
Tuesday, 16 September 2025 14:30-18:30	Afternoon	UniSA	Franco Filippi, Facundo Storani, Roberta Di Pace and	23	Stefano de Luca	Gating Traffic Control for Wide Area Applications