Monday, June 26th

Transportation systems with autonomous vehicles I - Special Session
Room: Auditorium
Chair:

1 Transportation systems with autonomous vehicles: modeling issues and research perspectives
Giulio Erberto Cantarella, University of Salerno, Italy
Angela Di Febbraro, University of Genoa, Italy

7 From Connected Vehicles to a Connected, Coordinated and Automated Road Transport (C2ART) system
María Alonso Raposo, Joint Research Centre, European Commission
Biagio Ciuffo, Joint Research Centre, European Commission
Michail Makridis, Joint Research Centre, European Commission
Christian Thiel, Joint Research Centre, European Commission

13 Transportation Systems with Connected and Non-Connected vehicles: Optimal Traffic Control
Stefano de Luca, University of Salerno, Italy
Roberta Di Pace, University of Salerno, Italy
Angela Di Febbraro, University of Genoa, Italy
Nicola Sacco, University of Genoa, Italy

19 Exploring the impact of autonomous vehicles in urban networks and potential new capabilities for perimeter control
Anastasios Kouvelas, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland
Jean-Patrick Perrin, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland
Saad Fokri, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland
Nikolas Geroliminis, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

Francesco Esposto, TNO, The Netherlands
Jorrit Goos, TNO, The Netherlands
Arjan Teerhuis, TNO, The Netherlands
Mohsen Alirezaei, TNO, The Netherlands

Traffic models in the presence of Autonomous Vehicles I - Special Session
Room: Sveva Hall
Chair: Luigi Pariota, University of Naples Federico II, Italy

31 Fusing Probe Speed and Flow Data for Robust Short-Term Congestion Front Forecasts
Felix Rempe, BMW Group, Germany
Lisa Kessler, Munich University of the Federal Armed Forces, Germany
Klaus Bogenberger, Munich University of the Federal Armed Forces, Germany

37 Exploitation of ACC systems towards improved traffic flow efficiency on motorways
Anastasia Spiliopoulou, Technical University of Crete, Greece
Georgia Perraki, Technical University of Crete, Greece
Markos Papageorgiou, Technical University of Crete, Greece
Claudio Roncoli, Technical University of Crete, Greece

44 Controlling Congestion Propagation in a Connected Vehicle Environment with Routing
Juan Argote-Cabanero, TSS-Transportation Simulation Systems, Spain
Jordi Casas, TSS-Transportation Simulation Systems, Spain
Javier Ortigosa, Area Metropolitana de Barcelona (AMB), Spain
Mean Field Differential Games In Intelligent Transportation Systems
Alper Oner, Istanbul Technical University, Turkey
Tamer Basar, University of Illinois at Urbana-Champaign, USA
Gulay Oke Gunel, Istanbul Technical University, Turkey

Automated Rail Wagon for new freight transport opportunities
Domenico Gattuso, Mediterranea University, Italy
Gian Carla Cassone, Mediterranea University, Italy
Antonio Lucisano, COELDA Software S.r.l., Italy
Maurizio Lucisano, COELDA Software S.r.l., Italy
Francesco Lucisano, COELDA Software S.r.l., Italy

Freight modelling and operations - Special Session
Room: Aragonese Hall
Chair: Edoardo Marcucci, University of Roma Tre, Italy

A Generic Framework for Monitoring Local Freight Traffic Movements Using Computer Vision-based Techniques
Xin Sun, Singapore University of Technology and Design, Singapore
Jiatao Ding, Singapore University of Technology and Design, Singapore
Giacomo Dalla Chiara, Singapore University of Technology and Design, Singapore
Lynette Cheah, Singapore University of Technology and Design, Singapore
Ngai-Man Cheung, Singapore University of Technology and Design, Singapore

Optimization of Container Operations at Inland Intermodal Terminals
Chiara Colombo, University of Rome "Sapienza", Italy
Gaetano Fasico, University of Rome "Sapienza", Italy
Natalia Isaenko, University of Rome "Sapienza", Italy
Luca Quadrifoglio, Texas University, USA

A multivariate logic Decision Support System for optimization of the maritime routes
Stefania Sinesi, Technical University of Bari, Italy
Maria Giovanna Altieri, Technical University of Bari, Italy
Mario Marinelli, Technical University of Bari, Italy
Mauro Dell’Orco, Technical University of Bari, Italy

Vehicle design and communications
Room: Catalana Hall
Chair: Chiara Fiori, University of Naples Federico II, Italy

LTEV2Vsim: An LTE-V2V Simulator for the Investigation of Resource Allocation for Cooperative Awareness
Giammarco Cecchini, CNR-IEIIT, Italy
Alessandro Bazzi, CNR-IEIIT, Italy
Barbara M. Masini, CNR-IEIIT, Italy
Alberto Zanella, CNR-IEIIT, Italy

Use Of Technology To Improve Bicycle Mobility In Smart Cities
Nikiforos Stamatiadis, University of Kentucky, USA
Giuseppina Pappalardo, University of Catania, Italy
Salvatore Cafiso, University of Catania, Italy

On the modelling and analysis of a motorcycle in critical leaning conditions
Andrea Bonci, Università Politecnica delle Marche, Italy
Riccardo De Amicis, Università Politecnica delle Marche, Italy
Sauro Longhi, Università Politecnica delle Marche, Italy
Emanuele Lorenzoni, Università Politecnica delle Marche, Italy

Vehicular Visible Light Networks with Full Duplex Communications
Barbara M. Masini, National Research Council of Italy (CNR)-IEIIT, Italy
Alessandro Bazzi, National Research Council of Italy (CNR)-IEIIT, Italy
Alberto Zanella, National Research Council of Italy (CNR)-IEIIT, Italy
**Anti-Skid Braking Control System Design for Aircraft: Multi-phase Schemes Approach**
Mohammadali Aghakhani Lonbani, Politecnico di Milano, Italy
Marco Morandini, Politecnico di Milano, Italy
Paolo Astori, Politecnico di Milano, Italy
Gianluca Ghiringhelli, Politecnico di Milano, Italy

**Transportation systems with autonomous vehicles II - Special Session**
Room: Auditorium
Chair: Giulio Erberto Cantarella, University of Salerno, Italy

**110 A collaborative control strategy for platoons of autonomous vehicles in the presence of message falsification attacks**
Alberto Petrillo, University of Naples Federico II, Italy
Antonio Pescapé, University of Naples Federico II, Italy
Stefania Santini, University of Naples Federico II, Italy

**116 Integrated Trajectory Control and Collision Avoidance for Automated Driving**
Jan Verhaegh, TNO, The Netherlands
Jeroen Ploeg, TNO, The Netherlands
Ellen van Nuen, TNO, The Netherlands
Arjan Teerhuis, TNO, The Netherlands

**122 Nonlinear Multi-Layer Consensus Seeking of Vehicular Platoons**
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Elham Semsar-Kazerooni, TNO, The Netherlands
Jeroen C. Zegers, TNO, The Netherlands
Jeroen Ploeg, TNO, The Netherlands

**128 A Multi-layer Control Approach to Truck Platooning: Platoon Cohesion subject to Dynamical Limitations**
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Elham Semsar-Kazerooni, TNO, The Netherlands
Mauro Fusco, TNO, The Netherlands
Jeroen Ploeg, TNO, The Netherlands

**134 Towards a generic lateral control concept for cooperative automated driving**
Antoine Schmeitz, TNO, The Netherlands
Jeroen Zegers, TNO, The Netherlands
Jeroen Ploeg, TNO, The Netherlands
Mohsen Alirezaei, TNO, The Netherlands

**Railway modelling and operations**
Room: Sveva Hall
Chair: Marcello Montanino, University of Naples Federico II, Italy

**140 Development of A Train Driver Advisory System: ETO**
Pengling Wang, Delft University Technology, The Netherlands
Rob M.P. Goverde, Delft University Technology, The Netherlands

**146 Dynamic Passenger Assignment during Disruptions in Railway Systems**
Yongqiu Zhu, Delft University Technology, The Netherlands
Rob M.P. Goverde, Delft University Technology, The Netherlands

**152 Analytical Method for the Precise and Fast Prediction of Railway Running Times**
Merlin Becker, Universitat Duisburg-Essen, Germany
Lars Habel, Universitat Duisburg-Essen, Germany
Michael Schreckenberg, Universitat Duisburg-Essen, Germany
Exploring Challenges and Solutions for Container Transportation Using Rail
Shalini Kurapati, TU Delft, The Netherlands
Ioanna Kourounioti, TU Delft, The Netherlands
Heide Lukosch, TU Delft, The Netherlands
Lorant Tavaszzy, TU Delft, The Netherlands
Alexander Verbraeck, TU Delft, The Netherlands
Linda van Veen, TU Delft, The Netherlands

Rail Operations in freight terminals: safety issues and proposed methodology
Domenico Gattuso, University Mediterranea of Reggio Calabria, Italy
Filippo Giannamaria Praticò, University Mediterranea of Reggio Calabria, Italy
Giancarla Cassone, Consultants - Reggio Calabria & Cosenza, Italy
Mario Vigna, Consultants - Reggio Calabria & Cosenza, Italy
Roberto Longo, INAIL, Italy
Raffaele Sceni, MEDCENTER, Italy

Optimization in public transport management I - Special Session
Room: Aragonese Hall
Chair: Andrea D’Ariano, Università di Roma Tre, Italy

Experimental analysis of eGLOSA and eGLODTA transit control strategies
Giulio Giorgione, University of Luxembourg, Luxembourg
Francesco Viti, University of Luxembourg, Luxembourg
Marco Rinaldi, University of Luxembourg, Luxembourg
Giorgios Laskaris, University of Luxembourg, Luxembourg
Marcin Seredyński, E-Bus Competence Center, Luxembourg

Optimizing the number of vehicles for a public bus line on the grounds of computer simulations
Vitalii Naumov, Cracow University of Technology, Poland

An Isochrones Based Public Transport Stops Optimization Technique
Elena Kondrateva, Samara National Research University, Russian Federation
Alexander Sidorov, Samara National Research University, Russian Federation
Oleg Saprykin, Samara National Research University, Russian Federation

A Heuristic for Rebalancing Bike Sharing Systems Based on a Deferred Acceptance Algorithm
Mohammed Elhenawy, Virginia Tech Transportation Institute, USA
Hesham A. Rakha, Virginia Tech Transportation Institute, USA

Simulation tools to compare and optimize mobility plans
Alessandra Campo, Università Roma Tre, Italy
Roberto D’Autilia, Università Roma Tre, Italy

Critical infrastructure protection and cybersecurity - Special Session
Room: Catalana Hall
Chair: Andrea Chiapetta, ASPISEC and Marconi International University, Italy

On the Impact of Empirical Attack Models Targeting Marine Transportation
Elias Bou-Harb, Florida Atlantic University, USA
Evangelos I. Kaisar, Florida Atlantic University, USA
Mark Austin, Florida Atlantic University, USA

Critical Infrastructure Protection: Beyond the Hybrid Port and Airport Firmware Security
Andrea Chiapetta, ASPISEC and Marconi International University, Italy
Gianni Cuozzo, ASPISEC, Italy

An analysis on the security perception of italian cyberspace
Federica Chiapetta, Università degli Studi Niccolò Cusano, Italy
Leslie Fadlon, Università degli Studi Niccolò Cusano, Italy
Arianna Norcini Pala, RAM SpA, Italy
Critical Infrastructure Protection: The need for evolving standards
Vincenzo Santoro, European Services Institute, Italy
L. Pensato, European Services Institute, Italy

Securing Critical Infrastructure with Smart Grids
Alessandro Niglia, Atlantic Treaty Association, Belgium

Trade-Off Analysis of Safety and Security in CAN bus communication
Luca Dariz, IMAMOTER-CNR, Italy
Michele Selvatici, IMAMOTER-CNR, Italy
Massimiliano Ruggeri, IMAMOTER-CNR, Italy
Gianpiero Costantino, IIT-CNR, Italy
Fabio Martinelli, IIT-CNR, Italy

Modelling and ITS I
Room: Auditorium
Chair: Gennaro Bifulco, University of Naples Federico II, Italy

Evaluation of a Cooperative Speed Advice Service implemented along an Urban Arterial Corridor
Evangelos Mintsis, National Technical University of Athens, Greece
Eleni I. Vlahogianni, National Technical University of Athens, Greece
Evangelos Mitsakis, Centre for Research and Technology Hellas, Greece
Seckin Ozkul, University of South Florida, USA

Multi-objective shortest path problem with deterministic and fuzzy cost functions applied to hazmat transportation on a road network
Luca Zero, University of Genoa, Italy
Chiara Bersani, University of Genoa, Italy
Massimo Paolucci, University of Genoa, Italy
Roberto Sacile, University of Genoa, Italy

Early Warnings Dissemination for Urban Micro-scale Monitoring Using Vehicular Sensor Network
Milica Milojevic, Imperial College London, UK
Javier A. Barria, Imperial College London, UK

A Standardized Approach to Derive System Specifications for Drones Operating in the Future UTM Scenario
Rita Fontanella, University of Naples Federico II, Italy
Amedeo Rodi Vetrella, University of Naples Federico II, Italy
Giancarmine Fasano, University of Naples Federico II, Italy
Domenico Accardo, University of Naples Federico II, Italy
Rosario Schiano Lo Moriello, University of Naples Federico II, Italy
Leopoldo Angrisani, University of Naples Federico II, Italy
Remy Girard, Ecole de l’Air, France

Traffic models in the presence of Autonomous Vehicles II
Room: Sveva Hall
Chair: Biagio Ciuffo, DG JRC, European Commission, Italy

Free flow acceleration: Humans and car-following models
Michail Makridis, DG JRC, European Commission, Italy
Biagio Ciuffo, DG JRC, European Commission, Italy
Georgios Fontaras, DG JRC, European Commission, Italy
Tomer Toledo, Transportation Research Institute - Technion, Israel
Modeling Tactical Lane-change Behavior for Automated Vehicles: A Supervised Machine Learning Approach
Nassim Motamedidehkordi, Technical University of Munich, Germany
Sasan Amini, Technical University of Munich, Germany
Silja Hoffmann, Technical University of Munich, Germany
Fritz Busch, Technical University of Munich, Germany
Mustika Riziki Fitriyanti, Technical University of Munich, Germany

Validation of driving behaviour as a step towards the investigation of Connected and Automated Vehicles by means of driving simulators
Luigi Pariota, University of Naples Federico II, Italy
Gennaro Nicola Bifulco, University of Naples Federico II, Italy
Gustav Markkula, University of Leeds, UK
Richard Romano, University of Leeds, UK

Capacity and Delay Analysis of Arterials with Mixed Autonomous and Human-Driven Vehicles
Mohsen Ramezani, The University of Sydney, Australia
Joao Aguiar Machado, EPFL, Switzerland
Alexander Skabardonis, University of California, Berkeley
Nikolas Geroliminis, EPFL, Switzerland

Optimization in public transport management II
Room: Aragonese Hall
Chair: Andrea D’Ariano, Università di Roma Tre, Italy

Optimal Aircraft Scheduling and Flight Trajectory in Terminal Control Areas
Marcella Samà, Università degli Studi Roma Tre, Italy
Andrea D’Ariano, Università degli Studi Roma Tre, Italy
Dario Pacciarelli, Università degli Studi Roma Tre, Italy
Konstantin Palagachev, Universität der Bundeswehr München, Germany
Matthias Gerds, Universität der Bundeswehr München, Germany

Railway Timetable Optimization Considering Robustness and Overtakings
Fei Yan, Delft University of Technology, The Netherlands
Rob M.P. Goverde, Delft University of Technology, The Netherlands

Ant Colony Optimization for train routing selection: operational vs tactical application
Marcella Samà, Università degli Studi Roma Tre, Italy
Andrea D’Ariano, Università degli Studi Roma Tre, Italy
Dario Pacciarelli, Università degli Studi Roma Tre, Italy
Paola Pellegrini, Université Lille Nord de France, France
Joaquin Rodriguez, Université Lille Nord de France, France

Model and software-based solution for implementing coordinated timed-transfer passenger transport system
Milan Simeunovic, University of Novi Sad, Serbia
Pavle Pitka, University of Novi Sad, Serbia
Valentina Basaric, University of Novi Sad, Serbia
Milja Simeunovic, University of Novi Sad, Serbia

Microscopic Delay Management: Minimizing Train Delays and Passenger Travel Times during Real-Time Railway Traffic Control
Andrea D’Ariano, Università degli Studi Roma Tre, Italy
Dario Pacciarelli, Università degli Studi Roma Tre, Italy
Marcella Samà, Università degli Studi Roma Tre, Italy
Francesco Corman, Delft University of Technology, The Netherlands

GSM, sensing and cellular data
Room: Catalana Hall
Chair: Vincenzo Punzo, University of Naples Federico II, Italy
A new approach for mobile positioning using the CDR data of cellular networks
Artjom Lind, University of Tartu, Estonia
Amnir Hadachi, University of Tartu, Estonia
Oleg Batrashev, University of Tartu, Estonia

Trip extraction for traffic analysis using cellular network data
Nils Breyer, Linkoping University, Sweden
David Gundlegard, Linkoping University, Sweden
Clas Rydergren, Linkoping University, Sweden
Johan Backman, Linkoping University, Sweden

A Predictive Model to Support the Widespread Diffusion of Electric Mobility
Michela Longo, Politecnico di Milano, Italy
Paolo Maffezzoni, Politecnico di Milano, Italy
Dario Zaninelli, Politecnico di Milano, Italy
Nina M. Latz, Massachusetts Institute of Technology, USA
Luka Danel, Massachusetts Institute of Technology, USA

Using Probe Vehicle Trajectories in Stop-and-Go Waves for Inferring Unobserved Vehicles
Mecit Cetin, Old Dominion University, USA
Khairul A. Anuar, Old Dominion University, USA

Model-based Generation and Validation of different Sensor Information contributing to a Fusion Algorithm in Connected Vehicles
Benjamin Reichelt, Technische Universität Dresden, Germany
Hagen Ubler, Technische Universität Dresden, Germany
Oliver Michler, Technische Universität Dresden, Germany
Jorg Hofeld, Fraunhofer-Institut für Verkehrs- und Infrastruktursysteme IVI, Germany
Sven Eckelmann, Hochschule für Technik und Wirtschaft Dresden, Germany
Toralf Trautmann, Hochschule für Technik und Wirtschaft Dresden, Germany

Tuesday, June 27th

Models and Technologies for Demand Estimation I - Special Session
Room: Auditorium
Chair: Francesco Viti, University of Luxembourg, Luxembourg

Exploring sensitivity-based clustering of OD variables in dynamic demand calibration
Farzad Fakhraei Roudsari, KU Leuven, Belgium
Chris M.J. Tampère, KU Leuven, Belgium

Enriched travel demand estimation by including zonal and traveler characteristics and their relationships
Jord P. van der Vliet, Delft University of Technology, Studio Bereikbaar, The Netherlands
Adam J. Pel, Delft University of Technology, The Netherlands
Hans van Lint, Delft University of Technology, The Netherlands

Effectiveness of the Two-Step Dynamic Demand Estimation model on large networks
Guido Cantelmo, University of Luxembourg, Luxembourg
Francesco Viti, University of Luxembourg, Luxembourg
Thierry Derrmann, University of Luxembourg, Luxembourg

A Sequential Approach to Time-dependent Demand Calibration: Application, Validation and Practical Implications for Large-scale Networks
Bojan Kostic, Sapienza University of Rome, Italy
Agostino Annunziata, Sapienza University of Rome, Italy
Guido Gentile, Sapienza University of Rome, Italy
Lorenzo Meschini, SISTeMA PTV Group, Italy
Techniques for Improving the Effectiveness of the SPSA Algorithm in Dynamic Demand Calibration
Bojan Kostic, Sapienza University of Rome, Italy
Guido Gentile, Sapienza University of Rome, Italy
Constantinos Antoniou, Technical University of Munich, Germany

Sustainable mobility I - Special Session
Room: Sveva Hall
Chair: Chiara Fiori, University of Naples Federico II, Italy

Modeling Bike Availability in a Bike-Sharing System Using Machine Learning
Huthaifa I. Ashqar, Virginia Tech Transportation Institute, USA
Mohammed Elhenawy, Virginia Tech Transportation Institute, USA
Mohammed H. Almannaa, Virginia Tech Transportation Institute, USA
Ahmed Ghanem, Virginia Tech Transportation Institute, USA
Hesham A. Rakha, Virginia Tech Transportation Institute, USA
Leanna House, Virginia Tech, USA

Evaluation of the impact of e-Mobility Scenarios in Large Urban Areas
Carlo Liberto, ENEA, DTE - PCU - STMA, Italy
Gaetano Valenti, ENEA, DTE - PCU - STMA, Italy
Maria Lelli, ENEA, DTE - PCU - STMA, Italy
Marina Ferrara, Roma Tre University, Italy
Maria Isabella Nigro, Roma Tre University, Italy

Analytics Tool for Assessing Innovative Mobility Concepts, Vehicles and City Policies (CitScale)
M. Paz Linares, Universitat Politècnica de Catalunya, Spain
Lidia Montero, Universitat Politècnica de Catalunya, Spain
Ester Lorente, Universitat Politècnica de Catalunya, Spain
Oriol Serch, Universitat Politècnica de Catalunya, Spain
German Navarro, Universitat Politècnica de Catalunya, Spain
Juan Salmerón, Universitat Politècnica de Catalunya, Spain
Josep Casanovas, Universitat Politècnica de Catalunya, Barcelona Supercomputing Center, Spain

Intelligent Strategy for Regenerative Braking Energy Harvesting in AC Electrical Railway Substation
Hamed Jafari Kaleybar, Sahand University of Technology, Iran
Hossein Madadi Kojabadi, Sahand University of Technology, Iran
Morris Brenna, Polytechnic University of Milan, Italy
Federica Foiadelli, Polytechnic University of Milan, Italy
Dario Zaninelli, Polytechnic University of Milan, Italy

Energy harvesting for on-board railway systems
Anna Lina Ruscelli, Scuola Superiore S. Anna, Italy
Gabriele Cecchetti, Scuola Superiore S. Anna, Italy
Piero Castoldi, Scuola Superiore S. Anna, Italy

Sustainable mobility I - Special Session
Room: Aragonese Hall
Chair: Carlos Lima de Azevedo, Massachusetts Institute of Technology, USA

Collection and comparison of driver/passenger physiologic and behavioural data in simulation and on-road driving
Daniele Ruscio, Catholic University of the Sacred Heart, Politecnico di Milano, Italy
Luca Bascetta, Politecnico di Milano, Italy
Alessandro Gabrielli, Politecnico di Milano, Italy
Matteo Matteucci, Politecnico di Milano, Italy
Dedy Ariansyah, Politecnico di Milano, Italy
Monica Bordegoni, Politecnico di Milano, Italy
Giandomenico Caruso, Politecnico di Milano, Italy
Lorenzo Mussone, Politecnico di Milano, Italy
The Evolution of Smart Mobility Strategies and Behaviors to Build the Smart City
Rocco Papa, University of Naples Federico II, Italy
Carmela Gargiulo, University of Naples Federico II, Italy
Laura Russo, University of Naples Federico II, Italy

System architecture of the activity chain optimization application
Domokos Esztergár-Kiss, Budapest University of Technology and Economics, Hungary

Smart Mobility: an evaluation method to audit Italian cities
Rosaria Battarra, National Research Council - Institute of Studies on Mediterranean Societies, Italy
Floriana Zucaro, University of Naples Federico II, Italy
Maria Rosa Tremiterra, University of Naples Federico II, Italy

Localization issues in the use of ITS
Vittorio Astarita, Università della Calabria, Italy
Vincenzo Pasquale Giofrè, Università della Calabria, Italy
Giuseppe Guido, Università della Calabria, Italy
Alessandro Vitale, Università della Calabria, Italy

Data and observatories for ITS
Room: Catalana Hall
Chair: Andrea Papola, University of Naples Federico II, Italy

From manual to automatic pavement distress detection and classification
Salvatore Cafiso, University of Catania, Italy
Carmelo D’Agostino, University of Catania, Italy
Emanuele Delfino, University of Catania, Italy
Alfonso Montella, University of Naples Federico II, Italy

The implementation of the Italian Register of Railway Infrastructure
Luigi Tatarelli, Agenzia Nazionale per la Sicurezza delle Ferrovie, Italy
Marco Schillaci, Rete Ferroviaria Italiana, Italy
Adriana Galli, Rete Ferroviaria Italiana, Italy

ITS Observatory: User needs for an ITS on-line tool
Panagiotis Iordanopoulos, Centre for Research and Technology Hellas, Greece
Simon Edwards, University of Newcastle upon Tyne, UK
Svetlana Popova, ERTICO – ITS Europe, Belgium

Perspectives of a web-based software to improve crash data quality and reliability in Italy
Alfonso Montella, University of Naples Federico II, Italy
Salvatore Chiaradonna, AGS IDEAS, Spin-Off of University of Naples Federico II, Italy
Giorgio Criscuolo, AGS IDEAS, Spin-Off of University of Naples Federico II, Italy
Salvatore De Martino, AGS IDEAS, Spin-Off of University of Naples Federico II, Italy

Dynamic Partitioning of Urban Road Networks Based on their Topological and Operational Characteristics
Loukas Dimitriou, University of Cyprus, Cyprus
Paraskevas Nikolaou, University of Cyprus, Cyprus

Models and Technologies for Demand Estimation II - Special Session
Room: Auditorium
Chair: Guido Cantelmo, University of Luxembourg, Luxembourg

Dynamic Traffic Assignment Integration with Real-Time Ramp Metering for Large-Scale Network Management
Minha Lee, University of Maryland, USA
Zheng Zhu, University of Maryland, USA
Chenfeng Xiong, University of Maryland, USA
Lei Zhang, University of Maryland, USA
Application of discrete choice models for mode and destination choice in a large scale demand model
Florian Koppelhuber, IKK Kaufmann-Kriebernegg ZT-GmbH, Austria
Georg Kriebernegg, IKK Kaufmann-Kriebernegg ZT-GmbH, Austria
Bernhard Luger, IKK Kaufmann-Kriebernegg ZT-GmbH, Austria
Jacqueline Aspack, IKK Kaufmann-Kriebernegg ZT-GmbH, Austria

Real-time traffic forecasting with recent DTA methods
Rafal Kacharski, Politechnika Krakowska, Poland
Bojan Kostic, Sapienza University of Rome, Italy
Guido Gentile, Sapienza University of Rome, Italy

Network trip assignment for agent-based simulation accounting for travel time
Nicholas Fournier, University of Massachusetts, USA
Eleni Christofa, University of Massachusetts, USA

How Mobile Phone Handovers reflect Urban Mobility: A Simulation Study
Thierry Derrmann, University of Luxembourg, Luxembourg
Raphael Frank, University of Luxembourg, Luxembourg
Thomas Engel, University of Luxembourg, Luxembourg
Francesco Viti, University of Luxembourg, Luxembourg

Sustainable mobility II - Special Session
Room: Sveva Hall
Chair: Chiara Fiori, University of Naples Federico II, Italy

Acceptance and equity in advanced path-related roadpricing schemes
Ennio Cascetta, University of Naples Federico II, Italy
Armando Cartenì, University of Naples Federico II, Italy
Ilaria Henke, University of Naples Federico II, Italy

Multimodal Alternatives: How do users perceive the different combination of modes?
Ioannis Tsouros, University of the Aegean, Greece
Amalia Polydoropoulou, University of the Aegean, Greece
Athena Tsirimpa, University of the Aegean, Greece

Development and On-board Testing of an ADAS-based Methodology to Enhance Cruise Control Features Towards CO2 Reduction
Antonio D’Amato, University of Salerno, Italy
Cesare Pianese, University of Salerno, Italy
Ivan Arsie, University of Salerno, Italy
Saverio Armeni, Magneti Marelli S.p.A., Italy
Walter Nesci, Magneti Marelli S.p.A., Italy
Alessandro Peciarolo, Magneti Marelli S.p.A., Italy

An Advanced Driver Assistance System for improving driver ability. Design and test in virtual environment
Riccardo Rossi, University of Padova, Italy
Gregorio Gecchele, University of Padova, Italy
Massimiliano Gustaldi, University of Padova, Italy
Francesco Biondi, University of Utah, USA
Claudio Malatti, University of Padova, Italy

Estimation of Traversal Speed on Multi-lane Urban Arterial Under Non-recurring Congestion
Sasan Amini, Technical University of Munich, Germany
Nassim Motamedidehkordi, Technical University of Munich, Germany
Eftychios Papapanagiotou, Technical University of Munich, Germany
Fritz Busch, Technical University of Munich, Germany

Smart mobility II - Special Session
Room: Aragonese Hall
Chair: Carlos Lima de Azevedo, Massachusetts Institute of Technology, USA
Eco-Cooperative Adaptive Cruise Control at Multiple Signalized Intersections: Network-Wide Evaluation and Sensitivity Analysis
Fawaz Almutairi, Virginia Polytechnic Institute and State University, USA
Hao Yang, Lamar University, USA
Hesham Rakha, Virginia Polytechnic Institute and State University, USA

Instrumented infrastructures for damage detection and management
Rosario Fedele, Mediterranea University of Reggio Calabria, Italy
Filippo Giammaria Pratico, Mediterranea University of Reggio Calabria, Italy
Riccardo Carotenuto, Mediterranea University of Reggio Calabria, Italy
Francesco Giuseppe Della Corte, Mediterranea University of Reggio Calabria, Italy

The smart city and mobility. The functional polarization of urban flow
Romano Fistola, University of Sannio, Italy
Marco Raimondo, University of Sannio, Italy
Rosa Anna La Rocca, University of Naples Federico II, Italy

How Many Probe Vehicles Do We Need to Collect On-Street Parking Information?
Fabian Bock, Leibniz Universitat, Germany
Sergio Di Martino, University of Naples Federico II, Italy

Developing a De-centralized Cycle-free Nash Bargaining Arterial Traffic Signal Controller
Hossam M. Abdelghaffar, Virginia Polytechnic Institute and State University, USA
Hao Yang, Lamar University, USA
Hesham A. Rakha, Virginia Polytechnic Institute and State University, USA

Road safety
Room: Catalana Hall
Chair: Alfonso Montella, University of Naples Federico II, Italy

Reducing Real-time Crash Risk for Congested Expressway Weaving Segments Using Ramp Metering
Mohamed Abdel-Aty, University of Central Florida, USA
Ling Wang, University of Central Florida, USA

Effectiveness of the newly introduced Variable Message Signs in Lebanon on road safety
Elias M. Choueiri, USEK, Lebanon
Alain Saroufim, USEK, Lebanon
Elie Otayek, USEK, Lebanon

Effectiveness of the newly introduced Variable Message Signs in Lebanon on driver behavior
Elias M. Choueiri, USEK, Lebanon
Joelle Aoun, USEK, Lebanon
Elie Otayek, USEK, Lebanon

Developing a Rear-End Crash Risk Algorithm under Fog Conditions using Real-Time Data
Yina Wu, University of Central Florida, USA
Mohamed Abdel-Aty, University of Central Florida, USA
Juneyoung Park, University of Central Florida, USA

Using Intelligent Transportation Systems to Enhance Pedestrian Safety at Beirut Signalized Intersection
Rania Wehbe, Holy Spirit University of Kaslik-Usek, Lebanon
Zaher Massaad, Holy Spirit University of Kaslik-Usek, Lebanon
Elie Otayek, Holy Spirit University of Kaslik-Usek, Lebanon

Big Data for ITS: experiences from the field and academia I - Special Session
Room: Auditorium
Chair: Constantinos Antoniou, Technical University of Munich, Germany
Network-Wide Bike Availability Clustering Using the College Admission Algorithm: A Case Study of San Francisco Bay Area
Mohammed H. Almannaa, Virginia Polytechnic Institute and State University, USA
Mohammed Elhenawy, Virginia Polytechnic Institute and State University, USA
Ahmed Ghanem, Virginia Polytechnic Institute and State University, USA
Huthaifa I. Ashqar, Virginia Polytechnic Institute and State University, USA
Hesham A. Rakha, Virginia Polytechnic Institute and State University, USA

Bike Share Travel Time Modeling: San Francisco Bay Area Case Study
Ahmed Ghanem, Virginia Polytechnic Institute and State University, USA
Mohammed Elhenawy, Virginia Polytechnic Institute and State University, USA
Mohammed Almannaa, Virginia Polytechnic Institute and State University, USA
Huthaifa I. Ashqar, Virginia Polytechnic Institute and State University, USA
Hesham A. Rakha, Virginia Polytechnic Institute and State University, USA

Understanding the transfer function of mass transit hub by Automated Fare Collection data
Quentin Estève, École des Ponts ParisTech (ENPC), France
Safia Lif, École des Ponts ParisTech (ENPC), France
Marion Cossic, École des Ponts ParisTech (ENPC), France
Fabien Leurent, École des Ponts, IFSTTAR, UPEM, UPE, France
Bachar Kabalan, École des Ponts, IFSTTAR, UPEM, UPE, France
Xiaoyan Xie, École des Ponts, IFSTTAR, UPEM, UPE, France

Data Visualization Tool for Monitoring Transit Operation and Performance
Abdullah Kurkcu, New York University (NYU), USA
Fabio Miranda, New York University (NYU), USA
Kaan Ozbay, New York University (NYU), USA
Claudio T. Silva, New York University (NYU), USA

Automated Data in Transit. Recent Developments and Applications
Haris N. Koutsopoulos, Northeastern University, USA
Peyman Noursalehi, Northeastern University, USA
Yiwen Zhu, Northeastern University, USA
Nigel H.M. Wilson, Massachusetts Institute of Technology, USA

Sustainable mobility III - Special Session
Room: Sveva Hall
Chair: Chiara Fiori, University of Naples Federico II, Italy

Multi-Purpose Fibre Optic System for Automated Vehicle’s Weighting-in-Motion and Classification in Applications of Intelligent Transport Systems
Alexander Grakovski, Transport and Telecommunication Institute, Latvia
Alexey Pilipovecs, Transport and Telecommunication Institute, Latvia

Micro-simulation of airport taxiing procedures to improve operation sustainability: application of semirobotic towing tractor
Laura Khammash, Università di Bologna, Italy
Luca Mancecchini, Università di Bologna, Italy
Vasco Reis, Universidade de Lisboa, Portugal

Traffic flow short-term forecasting system design and prototyping: case study of Riga city
Mihails Savrasovs, Transport and Telecommunication Institute, Latvia

Conditional Value-at-Risk Optimization of Traffic Control at Isolated Intersection
Eleni Papatzikou, National Technical University of Athens, Greece
Antony Stathopoulos, National Technical University of Athens, Greece

A nonlinear optimal control approach to reduce travel times and to improve safety in freeway traffic systems
C. Pasquale, University of Genova, Italy
S. Sacone, University of Genova, Italy
S. Siri, University of Genova, Italy
M. Papageorgiou, Technical University of Crete, Greece
Smart mobility III - Special Session
Room: Aragonese Hall
Chair: Carlos Lima de Azevedo, Massachusetts Institute of Technology, USA

639 Modeling Cyclists Speed at Signalized Intersections
Ali Kassim, Carleton University, City of Ottawa, Canada
Karim Ismail, Carleton University, Canada
Suzanne Woo, City of Ottawa, Canada

645 A real time multi-objective cyclists route choice model for a bike-sharing mobile application
Leonardo Caggiani, Politecnico di Bari, Italy
Rosalia Camporeale, Politecnico di Bari, Italy
Michele Ottomanelli, Politecnico di Bari, Italy

651 A vehicle-to-infrastructure communication based algorithm for urban traffic control
Cyril Nguyen Van Phu, Université Paris Est, COSYS, GRETTIA, IFSTTAR, France
Nadir Farhi, Université Paris Est, COSYS, GRETTIA, IFSTTAR, France
Habib Haj-Salem, Université Paris Est, COSYS, GRETTIA, IFSTTAR, France
Jean-Patrick Lebacque, Université Paris Est, COSYS, GRETTIA, IFSTTAR, France

657 Guidance For Identifying Corridor Conditions That Warrant Deploying Transit Signal Priority And Queue Jump
MD Sultan Ali, Florida Atlantic University, USA
Evangelos I. Kaisar, Florida Atlantic University, USA
Mohammad Hadi, Florida Atlantic University, USA

663 Semi-supervised Segmentation of Accelerometer Time Series for Transport Mode Classification
Maximilian Leodolter, AIT Austrian Institute of Technology, Austria
Peter Widhalm, AIT Austrian Institute of Technology, Austria
Claudia Plant, AIT Austrian Institute of Technology, Austria
Norbert Brandle, AIT Austrian Institute of Technology, Austria

Demand analysis and ITS
Room: Catalana Hall
Chair: Armando Cartenì, University of Naples Federico II, Italy

669 A Dynamic Prizing Scheme for a Congestion Charging Zone Based on a Network Fundamental Diagram
Benedikt Bracher, Munich University of the Federal Armed Forces, Germany
Klaus Bogenberger, Munich University of the Federal Armed Forces, Germany

675 Simulating the effects of real-time crowding information in public transport networks
Arkadiusz Drabicki, Cracow University of Technology, Poland
Rafal Kucharski, Cracow University of Technology, Poland
Oded Cats, Delft University of Technology, The Netherlands
Achille Fonzone, Edinburgh Napier University, UK

681 Dynamic Scenario Control for VANET Simulations
Christina Obermaier, Technische Hochschule Ingolstadt, Germany
Raphael Riebl, Technische Hochschule Ingolstadt, Germany
Christian Facchi, Technische Hochschule Ingolstadt, Germany

Wednesday, June 28th

Big Data for ITS: experiences from the field and academia II - Special Session
Room: Auditorium
Chair: F. Camara Pereira, Technical University of Denmark, Denmark
Scalable data-driven short-term traffic prediction
K. Friso, DAT.Mobility, The Netherlands
L.J.J. Wismans, DAT.Mobility, The Netherlands
M.B. Tijink, University of Twente, The Netherlands

Fusing GPS Probe and Mobile Phone Data for Enhanced Land-use Detection
Angelo Furno, Univ Lyon, ENTPE, IFSTTAR, LICIT, France
Nour-Eddin El Faouzi, Univ Lyon, ENTPE, IFSTTAR, LICIT, France
Marco Fiore, CNR – IEIIT, Italy
Razvan Stanica, Univ Lyon, INSA-Lyon, INRIA, CITI, France

Enhancing Resilience to Disasters using Social Media
Emmanouil Chaniotakis, Technical University of Munich, Germany
Constantinos Antoniou, Technical University of Munich, Germany
Francisco C. Pereira, Technical University of Denmark, Denmark

Traffic Dynamics Estimation by Using Raw Floating Car Data
Natalia Isaenko, University of Rome La Sapienza, Italy
Chiara Colombo, University of Rome La Sapienza, Italy
Gaetano Fusco, University of Rome La Sapienza, Italy

Big Data Analytics Architecture for Real-Time Traffic Control
Sasan Amini, Technical University of Munich, Germany
Ilias Gerostathopoulos, Technical University of Munich, Germany
Christian Prehofer, Technical University of Munich, Germany

Shared economy, new mobility services and travel behaviour I - Special Session

Room: Sveva Hall
Chair: Maria Kamargianni, University College London, UK

Consumer Preferences of Electric and Automated Vehicles
Ramin Shabanpour, University of Illinois at Chicago, USA
Seyedeh Niloufar Dousti Mousavi, University of Illinois at Chicago, USA
Nima Golshani, University of Illinois at Chicago, USA
Joshua Auld, Argonne National Laboratory, USA
Abolfazl Mohammadian, University of Illinois at Chicago, USA

Real time ridesharing: understanding user behavior and policies impact
S.Carrese, Roma Tre University, Italy
T.Giacchetti, Roma Tre University, Italy
S.M.Patella, Roma Tre University, Italy
M.Petrelli, Roma Tre University, Italy

Impact assessment of dedicated free-floating carsharing parking
Joschka Bischoff, Technische Universität Berlin, Germany
Kai Nagel, Technische Universität Berlin, Germany

Perceived socio-economic impacts of Cooperative Intelligent Transportation Systems: A case Study of Greece
Maria Anna Toulouki, National Technical University of Athens, Greece
Eleni I. Vlahogianni, National Technical University of Athens, Greece
Konstantina Gkritza, Purdue University, USA

A Stated Preference Experiments for Mobility-as-a-Service Plans
Melinda Matyas, University College London, UK
Maria Kamargianni, University College London, UK

Simulation and Forecasting for Intelligent Transit Networks I - Special Session

Room: Aragonese Hall
Chair: Agostino Nuzzolo, University of Rome Tor Vergata, Italy
Analysis of Network-wide Transit Passenger Flows Based on Principal Component Analysis

Ding Luo, Delft University of Technology, The Netherlands
Oded Cats, Delft University of Technology, The Netherlands
Hans van Lint, Delft University of Technology, The Netherlands

Modelling Multimodal Transit Networks

Judith Brand, Steer Davies Gleave, UK
Serge Hoogendoorn, Delft University of Technology, The Netherlands
Niels van Oort, Delft University of Technology, The Netherlands
Bart Schalkwijk, Vervoerregio Amsterdam, the Netherlands

Measuring Spill-over Effects of Disruptions in Public Transport Networks

Sanmay Shelat, Delft University of Technology, The Netherlands
Oded Cats, Delft University of Technology, The Netherlands

Innovative Approaches I

Room: Catalana Hall
Chair: Vittorio Marzano, University of Naples Federico II, Italy

Design, Specification, Implementation and Evaluation of a Freeway Queue Warning System

Zhejun Liu, University of Minnesota, USA
Peter Dirks, University of Minnesota, USA
John Houords, University of Minnesota, USA

Detailed Models and Network-Centric Technologies of Transport Process Management

Oleg Golovnin, Samara National Research University, Russia
Tatyana Mikheeva, Samara National Research University, Russia

Validation of Transport Infrastructure Changes via Microscopic Simulation: A Case Study for the City of Samara, Russia

Oleg Saprykin, Samara National Research University, Russian Federation
Olga Saprykina, Samara National Research University, Russian Federation

Machine Learning or Discrete Choice Models for Car Ownership Demand Estimation and Prediction?

Miguel Paredes, Massachusetts Institute of Technology, USA
Erik Hemberg, Massachusetts Institute of Technology, USA
Una-May O’Reilly, Massachusetts Institute of Technology, USA
Chris Zegras, Massachusetts Institute of Technology, USA

Traffic signals and signal control

Room: Auditorium
Chair: Marcello Montanino, University of Naples Federico II, Italy

A Modular Intersection Controller with Adaptive Stage Selection and Duration Algorithms

Tim Barker, University of Bristol, UK
Giovanni Russo, IBM Research Group, Ireland
Mario Di Bernardo, University of Bristol, UK

An Approach to Grouping Traffic Signals for Coordination Using Clustering Methods

Minha Lee, University of Maryland, USA
Hyoseuk Chang, University of Maryland, USA
Carlos Carrion, University of Maryland, USA
Lei Zhang, University of Maryland, USA

Combined dynamic traffic assignment and signal control: an application to a zone in Guangzhou

Wang Bei Anny, Guangzhou Municipal Engineering Design & Research Institute, China
Ning Ping Hua, Guangzhou Municipal Engineering Design & Research Institute, China

Towards a robust and wide-area traffic signal control for inner-city areas

Theresa Thunig, Technische Universitat Berlin, Germany
Kai Nagel, Technische Universitat Berlin, Germany
Real-time Signal Control Accounting for Urban Freight Deliveries
Eric J. Gonzales, University of Massachusetts Amherst, USA
Eleni Christofa, University of Massachusetts Amherst, USA

Shared economy, new mobility services and travel behaviour II - Special Session
Room: Sveva Hall
Chair: Maria Kamargianni, University College London, UK

System Optimal ATIS as a congestion management instrument - game-based experiment and agent based model
Ido Klein, Ben-Gurion University of the Negev, Israel
Eran Ben-Elia, Ben-Gurion University of the Negev, Israel

Development of a Demand Responsive Transport system with improvement analysis on conventional public transport: A Case Study for Schorndorf, Germany
Marta Barrilero, Institute of Transportation Systems, German Aerospace Center, Germany
Anke Sauerlander-Biebl, Institute of Transportation Systems, German Aerospace Center, Germany
Alexander Sohr, Institute of Transportation Systems, German Aerospace Center, Germany
Tobias Hesse, Institute of Transportation Systems, German Aerospace Center, Germany

Modelling factors affecting the use of ubiquitous real-time bus passenger information
Faqhrul Islam, Edinburgh Napier University, UK
Achille Fonzone, Edinburgh Napier University, UK
Andrew MacIver, Edinburgh Napier University, UK
Keith Dickinson, Edinburgh Napier University, UK

Microsimulation of an Autonomous Taxi-System in Munich
Florian Dandl, Munich University of the Federal Armed Forces, Germany
Benedikt Bracher, Munich University of the Federal Armed Forces, Germany
Klaus Bogenberger, Munich University of the Federal Armed Forces, Germany

Connected shared mobility for passengers and freight: investigating the potential of crowdshipping in urban areas
Edoardo Marcucci, University of Roma Tre, Italy and Molde University College, Norway
Michela Le Pira, University of Catania, Italy
Valerio Gatta, University of Roma Tre, Italy
Celine Sacha Carrocci, University of Roma Tre, Italy
Eleonora Pieralice, Istituto Superiore di Formazione e Ricerca per i Trasporti, Italy

Simulation and Forecasting for Intelligent Transit Networks II - Special Session
Room: Aragonese Hall
Chair: Guido Gentile, University of Rome "Sapienza", Italy

Impact of Relocation Strategies For a Fleet Of Shared Automated Vehicles On Service Efficiency, Effectiveness and Externalities
Konstanze Winter, Delft University of Technology, the Netherlands
Oded Cats, Delft University of Technology, the Netherlands
Bart van Arem, Delft University of Technology, the Netherlands
Karel Martens, Technion - Israel Institute of Technology, Israel

Transit Travel Strategy as Solution of a Markov Decision Problem: Theory and Applications
Agostino Nuzzolo, University of Rome Tor Vergata, Italy
Antonio Comi, University of Rome Tor Vergata, Italy

Bus travel time dispersion versus service punctuality and efficiency
Antonio Comi, University of Rome Tor Vergata, Italy
Agostino Nuzzolo, University of Rome Tor Vergata, Italy
Stefano Brinch, Mobility Agency of Rome Municipality, Italy
Renata Verghini, Mobility Agency of Rome Municipality, Italy
Real-time Short-turning in High Frequency Bus Services Based on Passenger Cost
David Leffler, KTH Royal Institute of Technology, Sweden
Oded Cats, KTH Royal Institute of Technology, Sweden and Delft University of Technology, The Netherlands
Erik Jenelius, KTH Royal Institute of Technology, Sweden
Wilco Burgsout, KTH Royal Institute of Technology, Sweden

Evaluation of Bus Dwelling Patterns Using Bus GPS Data
Ilgin Gokasar, Bogazici University, Turkey
Yigit Cetinel, Bogazici University, Turkey

Innovative Approaches II
Room: Catalana Hall
Chair: Stefano de Luca, University of Salerno, Italy

Big Data for public transportation: a DSS framework
Giuseppe Guido, University of Calabria, Italy
Daniele Rogano, University of Calabria, Italy
Alessandro Vitale, University of Calabria, Italy
Vittorio Astarita, University of Calabria, Italy
Demetrio Festa, University of Calabria, Italy

A Hybrid Method for Real-Time Short-Term Predictions of Traffic Flows in Urban Areas
Alessandro Attanasi, PTV SISTeMA, Italy
Lorenzo Meschini, PTV SISTeMA, Italy
Marco Pezzulla, PTV SISTeMA, Italy
Gaetano Fusco, University of Rome "Sapienza", Italy
Guido Gentile, University of Rome "Sapienza", Italy
Natalia Isaenko, University of Rome "Sapienza", Italy

The importance of choosing appropriate random utility models in complex choice contexts
Fiore Tinessa, University of Naples Federico II, Italy
Andrea Papola, University of Naples Federico II, Italy
Vittorio Marzano, University of Naples Federico II, Italy

Training neural networks to approximate traffic simulation outcomes
Pawel Gora, University of Warsaw, Poland
Marek Bardonski, Nvidia Corporation, Switzerland

Quantitative overview of efficiency and effectiveness of Public Transport in Italy: the importance of using ITS
Andrea Papola, University of Naples Federico II, Italy
Fiore Tinessa, University of Naples Federico II, Italy
Vittorio Marzano, University of Naples Federico II, Italy
Angelo Mautone, Italian Ministry of Infrastructures and Transport, Italy

Modelling and ITS II
Room: Santa Lucia Hall
Chair: Mariano Gallo, University of Sannio, Italy

Performance Study of ZigBee Networks in a Rail Environment for Signalling Systems
Armando Mendez-Villalon, University of Nottingham, UK
David W. P. Thomas, University of Nottingham, UK
Steve Greedy, University of Nottingham, UK

Improving Vehicle Speed Prediction Transferability With Network Centrality
Maximilian Leodolter, Austrian Institute of Technology, Austria
Anita Graser, Austrian Institute of Technology, Austria

A Diffusion Model to Explain and Forecast Freeway Breakdown and Delay
Paul J. Ossenbruggen, University of New Hampshire, USA
Artificial Neural Networks for forecasting user flows in transportation networks: literature review, limits, potentialities and open challenges
  Giuseppina De Luca, University of Sannio, Italy
  Mariano Gallo, University of Sannio, Italy

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