

Preliminary Draft Program - TRISTAN 2019

Monday 17 June

8:00	Welcome		
9:00	Plenary: David Simchi-Levi		
10:00	Morning Tea		
10:30	Multi-Output Gaussian Process in Simulation-based Transportation Optimization. Timothy Tay and Carolina Osorio	On the needs for on-demand management of ridesharing mobility. Andrea Simonetto, Julien Monteil and Claudio Gambella	Locomotive Fuel Management with Inline Refueling. Ahmad Kazemi, Andreas Ernst, Mohan Krishnamoorthy and Pierre Le Bodic
	Continuous simulation optimization of expensive black-box traffic systems: A review of algorithms and applications to toll pricing. Ziyuan Gu, Meead Saberi and S Travis Waller	Optimizing Vacant Taxis' Routing Decisions: Model-based and Model-free Approaches. Xinlian Yu, Song Gao and Xianbiao Hu	Finding robust shunting plans. Roel van den Broek, Han Hoogeveen and Marjan Van Den Akker
	Incorporating competition in demand-based optimization models. Stefano Bortolomio, Virginie Lurkin and Michel Bierlaire	Passenger-centric dial-a-ride problem for on-demand mobility systems. Shadi Sharif Azadeh, Yousef Maknoon, Bilge Atasoy, Michel Bierlaire and Moshe Ben Akiva	Railway Rolling Stock Maintenance Scheduling. Lukas Bach and Daniel Palhazi Cuervo
	Specification of Mixed Logit Models Assisted by an Optimization Approach. Alexander Paz and Cristian Arteaga	Applying Fragments to the Dial a Ride Problem. Michael Forbes	Intermodal Rail Blocking and Car Fleet Management. Teodor Gabriel Crainic, Emma Frejinger and Tien Mai
12:30	Lunch		
13:30	Simultaneous correction of the time and location bias associated with a reported crash by exploiting the spatiotemporal evolution of travel speed. Zhengli Wang and Hai Jiang	A Continuous Model for Electric Vehicle Sharing with Battery Degradation. Jian Wu, Xin Wang and Feng Ju	Transport Policy: Hunter Valley Coal Chain Case Study. Martin Savelsbergh and Masoud Talebian
	Temporal and Spatial Resolution Relation of Road Accidents and Rainfall Data. Lucas Area Leao Barreto and Feng Zhu	A mathematical model and a solution algorithm for the electric vehicle routing problem with non-stationary battery swapping. Ramin Raeesi and Konstantinos G Zografos	A new Benders decomposition method for metropolitan container logistics problems. Andrew Perrykkad, Andreas Ernst and Mohan Krishnamoorthy
	Factors Affecting the Speeding Behavior of Professional Drivers. Tiantian Chen, Tony Sze and Lu Bai	The Dynamic Relocation Problem for Electric Carsharing Services. Simen Hellem, Carl Andreas Julsvoll, Magnus Nyborg Moan, Kjetil Fagerholt, Henrik Andersson and Giovanni Pantuso	Forecasting a freight carrier's demand for container shipments. Greta Laage, Emma Frejinger and Gilles Savard
	A GIS modelling approach for pedestrian safety. Carmelo D'Agostino, Natalia Distefano, Salvatore Leonardi and Rosalia Camporeale	A Decentralized Shared CAV System Design & Application. Seyed Mehdi Meshkani, Shadi Djavadian and Bilal Farooq	Sending a reliable cost-efficient flow through a stochastic time-varying network. Alberto Giudici, Tao Lu, Clemens Thielen and Rob Zuidwijk
		Combinatorial Auction with Bidder-Defined Items for Fractional Ownership of Autonomous Vehicles. Mahdi Takaloo, Aigerim Bogrybayeva, Hadi Charkhgard and Changyun Kwon	
15:30	Afternoon Tea		
16:00	Incentive-Compatible Mechanisms for Traffic Intersection Auctions with Autonomous Vehicles. David Rey, Vinayak Dixit and Michael Levin	Passenger-to-Itinerary Assignment Model for Congested Urban Rail Networks. Yiwen Zhu, Haris Koutsopoulos and Nigel Wilson	Improving Drayage Operations through a Realistic Optimization Model. Mahboobeh Moghaddam, Robin H Pearce, Hamid Mokhtar and Carlo Prato
	Analytical Delay Models for Interrupted Mixed Flow of Autonomous and Human-Driven Vehicles. Reza Mohajerpoor and Mohsen Ramezani	Contributions of demand variability to unreliability in the public transport system. Emily Moylan	A column generation procedure for the Flexible Ship Loading Problem. Jonas Christensen and Dario Pacino
	Max-Pressure Based Autonomous Intersection Management with Pedestrians. Rongsheng Chen, Jeffrey Hu, Michael Levin and David Rey	Ride-Sharing Service Planning Based on Smartcard Data: An Exploratory Study. Jiangping Zhou	Ship routing problem with berthing time clash avoidance constraints and minimizing demurrage. Kosuke Kawakami and Mirai Tanaka
17:30			

Tuesday 18 June

8:30	Data-driven Optimization Model Customization. Mike Hewitt and Emma Frejinger	An approach to model competition in ridesharing. Venkatesh Pandey, Julien Monteil and Andrea Simonetto	On the Price of Satisficing in Network User Equilibria. Mahdi Takalloo and Changhyun Kwon
	Recent Advancements in Solution Methods for Traveling Salesman Problems with a Drone. Mark Bierema, Eveline van Dijk and Paul Bouman	Modeling the Operation Dynamics of Ride-sourcing Markets. Xinwu Qian, Rui Chen, Chao Yang and Satish Ukkusuri	Traffic-dependent limited unfairness in a system optimum traffic assignment. M Grazia Speranza, Enrico Angelelli and Valentina Morandi
	Time-Dependent Vehicle Routing Problem with Time Windows on a Road Network. Maha Gmira, Michel Gendreau, Andrea Lodi and Jean-Yves Potvin	Matching Passengers and Drivers with Multiple Objectives in Ride Sharing Markets. Guodong Lyu, Wangchi Cheung, Chung Piau Teo and Hai Wang	Social Route Guidance with Equity Constraints. Oskar A L Eikenbroek, Georg Still and Eric van Berkum
10:00	Morning Tea		
10:30	Plenary: SC Wong		
11:30	Spatial and temporal synchronization of truck platoons. Anirudh Kishore Bhoopalani, Niels Agatz and Rob Zuidwijk	The Full Cost of Auto Accessibility. Mengying Cui and David Levinson	Investigating the robustness of route-based sensor location policies under variable network demand. Marco Rinaldi and Francesco Viti
	Truck Platooning Network Design. Szymon Albinski, Teodor Gabriel Crainic and Stefan Minner	A many-to-many stable matching cost allocation model for multimodal Mobility-as-a-Service. Saeid Rasulkhani, Theodoros Pantelidis and Joseph Chow	Connected Vehicle Sensor Location Model for Traffic Congestion Mitigation. Hyoshin Park and Ali Haghani
12:30	Lunch		
13:30	Trade-offs in shared transportation services. Margaretha Gansterer, Richard F Hartl and Sarah Wieser	Robust network-wide bus scheduling with transfer synchronizations. Konstantinos Gkiotsalitis, Oskar A L Eikenbroek and Oded Cats	Identifying Compliant Users Needed for Social Optimum Routing in Traffic Networks. Tarun Rambha, Michael Albert, Guni Sharon, Stephen Boyles and Peter Stone
	The Vehicle Routing Problem with Digital Lockers Terminals. Simona Mancini	Data-Driven Transit Network Design at Scale. Dimitris Bertsimas, Yee Sian Ng and Julia Yan	An equilibrium service choice in a dynamic traffic assignment with real-time information. Nam H Hoang, Hai L Vu and Dong Ngoduy
	The Vehicle Routing Problem with Load-Dependent Travel Times for Cargo Bike Routing. Pirmin Fontaine	Analytical BusPlus. Arthur Mahéo and Michael Forbes	The Complementary Duet of Vehicular Diverging: An Experimental Approach. Mingyue Sheng and Siwen Pan
	Vehicle Routing with Stochastic Crowd Drivers. Fabian Alejandro Torres Duran, Walter Rei and Michel Gendreau	Integrating frequency setting and timetabling to synchronize transit lines at common stops. Yadira Isabel Silva Soto and Omar Jorge Ibarra Rojas	An activity-based approach for optimizing the High-Occupancy Toll lanes in congested road networks. Dang Khoa Vo and William H K Lam
15:30	Afternoon Tea		
16:00	A Branch-and-Cut-and-Price Algorithm for the Capacitated Location-Routing Problem. Pedro Henrique P V Liguori, A Ridha Mahjoub, Ruslan Sadykov and Eduardo Uchoa	Shared Autonomous Mobility Fleets and Multimodal Transit Networks: Design Methodology and Trade-Offs. Hani Mahmassani, Helen Pinto and Michael Hyland	Applying Meta-heuristic Algorithm with parallel computation framework to simulation-based Dynamic Traffic Assignment. Mostafa Ameli, Jean-Patrick Lebacque and Ludovic Leclercq
	Solving a real-world delivery and installation vehicle routing problem. Sandra Huber	Network performance under different levels of ride-sharing: A simulation study. Negin Alisoltani Dehkordi, Ludovic Leclercq and Mahdi Zargayouna	An efficient algorithm for high-dimensional continuous simulation-based optimization problems: the case of dynamic origin-destination demand calibration problems. Carolina Osorio
	Optimizing Package Express Operations in China. Baris Yildiz and Martin Savelsbergh	A Dynamic Ride-Sourcing System for City-Scale Networks. Amir Hosein Valadkhani and Mohsen Ramezani	A strategic Markovian equilibrium model for capacitated networks. Maëlle Zimmermann, Emma Frejinger and Patrice Marcotte
	A mixed integer programming approach for scheduling spatially distributed jobs with degradation rate: application to pothole repair. Rajan Batta and Fatemeh Aarabi		Dynamic traffic assignment for multimodal GSOM models. Megan Khoshyaran and Jean-Patrick Lebacque
18:00			
19:00	Possible Meeting of International Scientific Committee [Placeholder]		

Thursday 20 June

8:30	A Passenger-Centric Approach to Air Traffic Flow Management. Alexandre Jacquillat	General Solution Scheme for the Static Link Transmission Model. Mark Raadsen and Michiel Bliemer	Dynamic Flexible Time Window Pricing for Attended Home Deliveries. Charlotte Köhler, Jan Fabian Ehmke, Ann Campbell and Catherine Cleophas
	Integrated airline schedule, aircraft and passenger recovery: incorporating passenger response to disruptions. Luis Cadarso and Vikrant Vaze	Stable Primal Numerical Method for the Bottleneck Model. Hillel Bar-Gera	Pricing for Drivers and Customers for Goods Deliveries. Luce Brotcorne, Anton Kleywegt and Youcef Magnouche
	Choice-Based Integrated Airline Fleet Assignment and Schedule Design. Chiwei Yan, Cynthia Barnhart and Vikrant Vaze	Dynamic speed control and lane management in the general link transmission model. Michiel Bliemer, Mark Raadsen, Luc Wismans and Luuk Brederode	Decision-Based Scenario Clustering for Decision-Making Under Uncertainty: applications in transport planning. Michael Hewitt, Janosch Ortmann and Walter Rei
10:00	Morning Tea		
10:30	Plenary: Stephane Hess		
11:30	A Large-scale Neighborhood Search Approach to Airport Slot Allocation. Nuno Antunes Ribeiro, Alexandre Jacquillat and António Pais Antunes	Improving pedestrian dynamics by preventing counter-flow.. Nicholas Molyneaux, Riccardo Scarinci and Michel Bierlaire	A General Theory of Access. David Levinson
	Optimizing multi-level, multi-objective airport slot-scheduling decisions. Fotios Katsigiannis and Konstantinos G Zografos	Toward Development of a Link Transmission Model for Pedestrian Networks. Tanapon Lilasathapornkit, Wei Liu and Meead Saberi	Estimating Travellers' Trip Purposes using Public Transport Data and Land Use Information. Bo Du
12:30	Lunch		
13:30	Multi-reservoir MFD-based simulation: An application to the city network of Lyon. Guilhem Mariotte, Mahendra Paipuri and Ludovic Leclercq	A predictive model of lane-changing possibilities: deep learning approach. Seunghyeon Lee and Ngoduy Dong	Optimizing Omni-Channel Fulfilment with Store Transfers. Joydeep Paul, Niels Agatz and Martin Savelsbergh
	Perimeter Flow Control with Time-Varying Cordon based on Macroscopic Fundamental Diagram. Ye Li, Reza Mohajerpoor and Mohsen Ramezani	A Study on Driver's Stopping Behavior Focusing on Generalization. Hirotooshi Shirayanagi, Takahiro Tsubota, Shinya Kurauchi and Toshio Yoshii	Reliable Parcel Routing Policy in a Physical Internet. Ido Orenstein and Tal Raviv
	Finding critical links to estimate a Macroscopic Fundamental Diagram in congested urban networks. Elham Saffari, Mehmet Yildirimoglu and Mark Hickman	Using shapes to find regular 3D urban traffic patterns for improved travel time predictions. Panchamy Krishnakumari, Oded Cats and Hans van Lint	Operations Design for High-velocity Intra-city Package Service. Iman Dayarian, Adolfo Rocco Rocco, Alexander Stroh, Martin Savelsbergh, Alejandro Toriello and Alan Erera
	Design of urban transportation infrastructure for optimal passenger throughput. Allister Loder, Michiel C J Bliemer and Kay W Axhausen	A Novel Traffic Estimation Approach Using Multi-Source Data on Motorways. Xuan Sy Trinh, Dong Ngoduy, Mehdi Keyvan-Ekbatani and Blair Robertson	Hyperconnected Urban Parcel Logistic Systems Design. Benoit Montreuil, Sara Kaboudvand, Louis Faugere and Martin Savelsbergh
	On bus scheduling in a multi-modal network with doubly traffic dynamics. Fangni Zhang and Wei Liu		
15:30	Afternoon Tea		
16:00	Integrated Scheduling and Flow Management in Air Traffic Management Networks. Kai Wang and Alexandre Jacquillat	The co-development of railway and land use in Sydney. Bahman Lahoorpoor and David Levinson	The Last-mile Vehicle Routing Problem with Alternative Delivery Options. Christian Tilk, Stefan Irnich and Katharina Olkis
	Machine Learning feeding Mathematical Programming for Air Crew Scheduling. Francois Soumis, Yassine Yaakoubi and Simon Lacoste-Julien	The impact of road capacity on connectivity by eigenvector centrality analysis. Hiroe Ando, Michael Bell and Fumitaka Kurauchi	Estimating Vehicle Fleet Composition for Last-Mile Delivery Service. Frederic Semet, Ekaterina Alekseeva, Luce Brotcorne, Youcef Magnouche and Etienne Soufflet
	A MIP formulation for the flexible rostering of ground personnel at an international airport. Juan Pablo Cavada, Cristián E Cortés and Pablo A Rey	Beyond a complete failure: assessment of the impact of partial capacity degradation on road transport network vulnerability. Yi Wang, Yu Jiang and Wy Szeto	Multi-Period Workload Balance in Last-Mile Urban Delivery. Yang Wang, Lei Zhao and Martin Savelsbergh
17:30			
19:00	Conference Dinner at Auditorium		

Friday 21 June

8:30	A Priori Routing for Strategic Time Slot Management in Online Grocery Retailing. Thomas Visser and Martin Savelsbergh	On the use of operations research methods for the design of school districts. Karen Smilowitz	A Survivable p-Hub Median Problem and a Modified Benders Decomposition Method. Hamid Mokhtar, Mohan Krishnamoorthy and Andreas T Ernst
	The pickup and delivery problem with on-line transfers.. Paul Bouman, Gizem Ozbaygin and Lucas Veelenturf	Solving The Joint Multi-School Bell Time and Route Scheduling Optimization Problem. Ali Haghani, Ali Shafahi and Zhongxiang Wang	Stochastic Single-Allocation Hub Location. Nicolas Kämmerling, Borzou Rostami, Christoph Buchheim, Joe Naoum-Sawaya and Uwe Clausen
	Tactical Design of Same-Day Delivery Systems. Alexander Stroh, Alan Erera and Alejandro Toriello	Optimizing the Training Transfer of Junior Soccer Players. Christian Jost, Alexander Döge, Sebastian Schiffels and Rainer Kolisch	An Intermodal Hub Location Problem for Container Distribution in Indonesia. Hamid Mokhtar, Perwira Redi, Mohan Krishnamoorthy and Andreas T Ernst
10:00	Morning Tea		
10:30	Plenary: Michael Bell		
11:30	Pickup and delivery problem with truckload synchronization through multiple cross-docks. Yousef Maknoon and Gilbert Laporte	Integrated robust & possibilistic multiobjective humanitarian logistic model with social costs. Cristián E Cortés, Pablo A Rey and Luis E Yáñez	
	Integer Programming Models for Freight Logistics Service Network Design with In-Tree Constraints. Natasha Boland and Ira Wheaton	Fleet sizing and operations management in wildfire suppression operations. Simon Dunstall, Nicholas Davey, Carolyn Huston, Edmundo Claro-Rodriguez and Saman Halgamuge	
12:30	Closing and Box (Takeaway) Lunch		