

FINAL PROGRAM

TRISTAN 2019: Schedule for Monday 17 June

8:00	Registration Opens		
8:45	Welcome		
9:00	Plenary: David Simchi-Levi -- Online Resource Allocation with Applications to Revenue Management		
10:00	Morning Tea		
	Endeavour Room - Resort Side	Endeavour Room - Beach Side	Chart Room
	<i>Chair: Alexander Paz</i>	<i>Chair: Michael Forbes</i>	<i>Chair: Teo Crainic</i>
10:30	A Gaussian Process Approach for High-dimensional 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
11:00	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	A Decentralized Shared CAV System Design & Application. Seyed Mehdi Meshkani, Shadi Djavadian and Bilal Farooq	Finding robust shunting plans. Roel van den Broek, Han Hoogeveen and Marjan Van Den Akker
11:30	Incorporating competition in demand-based optimization models. Stefano Bortolomol, 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
12:00	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		
	<i>Chair: Ali Haghani</i>	<i>Chair: Konstantinos Zografos</i>	<i>Chair: Mahboobeh Moghaddam</i>
13:30	On the use of operations research methods for the design of school districts. Karen Smilowitz	A Continuous Model for Electric Vehicle Sharing with Battery Degradation. Jian Wu, Xin Wang and Feng Ju	A new Benders decomposition method for metropolitan container logistics problems. Andrew Perrykkad, Andreas Ernst and Mohan Krishnamoorthy
14:00	Solving The Joint Multi-School Bell Time and Route Scheduling Optimization Problem. Ali Haghani, Ali Shafahi and Zhongxiang Wang	A mathematical model and a solution algorithm for the electric vehicle routing problem with non-stationary battery swapping. Ramin Raeesi and Konstantinos G Zografos	Forecasting a freight carrier's demand for container shipments. Greta Laage, Emma Frejinger and Gilles Savard
14:30	Optimizing the Training Transfer of Junior Soccer Players. Christian Jost, Alexander Döge, Sebastian Schiffels and Rainer Kolisch	Combinatorial Auction with Bidder-Defined Items for Fractional Ownership of Autonomous Vehicles. Mahdi Takaloo, Aigerim Bogrybayeva, Hadi Charkhgard and Changhyun Kwon	Improving Drayage Operations through a Realistic Optimization Model. Mahboobeh Moghaddam, Robin H Pearce, Hamid Mokhtar and Carlo Prato
15:00	Afternoon Tea		
	<i>Chair: Mohsen Ramezani</i>	<i>Chair: Simon Dunstall</i>	<i>Chair: Natasha Boland</i>
15:30	Incentive-Compatible Mechanisms for Traffic Intersection Auctions with Autonomous Vehicles. David Rey, Vinayak Dixit and Michael Levin	Integrated robust & possibilistic multiobjective humanitarian logistic model with social costs. Cristián E Cortés, Pablo A Rey and Luis E Yáñez	Sending a reliable cost-efficient flow through a stochastic time-varying network. Alberto Giudici, Tao Lu, Clemens Thielen and Rob Zuidwijk
16:00	Analytical Delay Models for Interrupted Mixed Flow of Autonomous and Human-Driven Vehicles. Reza Mohajerpoor and Mohsen Ramezani	Fleet sizing and operations management in wildfire suppression operations. Simon Dunstall, Nicholas Davey, Carolyn Huston, Edmundo Claro-Rodriguez and Saman Halgamuge	Pickup and delivery problem with truckload synchronization through multiple cross-docks. Yousef Maknoon and Gilbert Laporte
16:30	Max-Pressure Based Autonomous Intersection Management with Pedestrians. Rongsheng Chen, Jeffrey Hu, Michael Levin and David Rey		Integer Programming Models for Freight Logistics Service Network Design with In-Tree Constraints. Natasha Boland and Ira Wheaton

TRISTAN 2019: Schedule for Tuesday 18 June

	Endeavour Room - Resort Side	Endeavour Room - Beach Side	Chart Room
	<i>Chair: Rajan Batta</i>	<i>Chair: Satish Ukkusuri</i>	<i>Chair: Tarun Rambha</i>
8:30	Recent Advancements in Solution Methods for Traveling Salesman Problems with a Drone. Mark Bierema, Eveline van Dijk and Paul Bouman	An approach to model competition in ridesharing. Venkatesh Pandey, Julien Monteil and Andrea Simonetto	On the Price of Satisficing in Network User Equilibria. Mahdi Takaloo and Changhyun Kwon
9:00	Time-Dependent Vehicle Routing Problem with Time Windows on a Road Network. Maha Gmira, Michel Gendreau, Andrea Lodi and Jean-Yves Potvin	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
9:30	A mixed integer programming approach for scheduling spatially distributed jobs with degradation rate: application to pothole repair. Rajan Batta and Fatemeh Aarabi	Matching Passengers and Drivers with Multiple Objectives in Ride Sharing Markets. Guodong Lyu, Wangchi Cheung, Chung Piaw Teo and Hai Wang	Identifying Compliant Users Needed for Social Optimum Routing in Traffic Networks. Tarun Rambha, Michael Albert, Guni Sharon, Stephen Boyles and Peter Stone
10:00	Morning Tea		
10:30	Plenary: SC Wong -- Continuum Modeling Approach to Land Use, Transport and the Environment for Urban Cities		
	<i>Chair: Rob Zuidwijk</i>	<i>Chair: Ludovic Leclercq</i>	<i>Chair: Marco Rinaldi</i>
11:30	Spatial and temporal synchronization of truck platoons. Anirudh Kishore Bhoopalam, Niels Agatz and Rob Zuidwijk	Network performance under different levels of ride-sharing: A simulation study. Negin Alisoltani Dehkordi, Ludovic Leclercq and Mahdi Zargayouna	Investigating the robustness of route-based sensor location policies under variable network demand. Marco Rinaldi and Francesco Viti
12:00	Truck Platooning Network Design. Szymon Albinski, Teodor Gabriel Crainic and Stefan Minner	A Dynamic Ride-Sourcing System for City-Scale Networks. Amir Hosein Valadkhani and Mohsen Ramezani	Connected Vehicle Sensor Location Model for Traffic Congestion Mitigation. Hyoshin Park and Ali Haghani
12:30	Lunch		
	<i>Chair: Pirmin Fontaine</i>	<i>Chair: Nigel Wilson</i>	<i>Chair: William Lam</i>
13:30	Trade-offs in shared transportation services. Margaretha Gansterer, Richard F Hartl and Sarah Wieser	The co-development of railway and land use in Sydney. Bahman Lahoorpoor and David Levinson	Dynamic traffic assignment for multimodal GSOM models. Megan Khoshyaran and Jean-Patrick Lebacque
14:00	The Vehicle Routing Problem with Digital Lockers Terminals. Simona Mancini	Passenger-to-Itinerary Assignment Model for Congested Urban Rail Networks. Yiwen Zhu, Haris Koutsopoulos and Nigel Wilson	An equilibrium service choice in a dynamic traffic assignment with real-time information. Nam H Hoang, Hai L Vu and Dong Ngoduy
14:30	The Vehicle Routing Problem with Load-Dependent Travel Times for Cargo Bike Routing. Pirmin Fontaine	Contributions of demand variability to unreliability in the public transport system. Emily Moylan	The Complementary Duet of Vehicular Diverging: An Experimental Approach. Mingyue Sheng and Siwen Pan
15:00		Analytical BusPlus. Arthur Mahéo and Michael Forbes	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		
	<i>Chair: Martin Savelsbergh</i>	<i>Chair: Joseph Chow</i>	<i>Chair: Maëlle Zimmermann</i>
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
16:30	Optimizing Package Express Operations in China. Baris Yildiz and Martin Savelsbergh	A many-to-many stable matching cost allocation model for multimodal Mobility-as-a-Service. Saeid Rasulkhani, Theodoros Pantelidis and Joseph Chow	A strategic Markovian equilibrium model for capacitated networks. Maëlle Zimmermann, Emma Frejinger and Patrice Marcotte
17:00		Data-Driven Transit Network Design at Scale. Dimitris Bertsimas, Yee Sian Ng and Julia Yan	
19:00	Meeting of International Scientific Committee [Placeholder]		

TRISTAN 2019: Schedule for Thursday 20 June

	Endeavour Room - Resort Side	Endeavour Room - Beach Side	Chart Room
	<i>Chair: Vikrant Vaze</i>	<i>Chair: Michiel Bliemer</i>	<i>Chair: Anton Kleywegt</i>
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
9:00	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
9:30	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 -- Quantum Logic and Neural Preference Accumulation: A Leap Into the Unknown or a New Dawn for Dynamic Travel Behaviour Models?		
	<i>Chair: Alexandre Jacquillat</i>	<i>Chair: Nicholas Molyneaux</i>	<i>Chair: David Levinson</i>
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
12:00	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		
	<i>Chair: Mehmet Yildirimoglu</i>	<i>Chair: Dong Ngoduy</i>	<i>Chair: Benoit Montreuil</i>
13:30	Multi-reservoir MFD-based simulation: An application to the city network of Lyon. Guilhem Mariotte, Mahendra Paipuri and Ludovic Leclercq	The Full Cost of Auto Accessibility. Mengying Cui and David Levinson	Optimizing Omni-Channel Fulfilment with Store Transfers. Joydeep Paul, Niels Agatz and Martin Savelsbergh
14:00	Perimeter Flow Control with Time-Varying Cordon based on Macroscopic Fundamental Diagram. Ye Li, Reza Mohajerpour and Mohsen Ramezani	A predictive model of lane-changing possibilities: deep learning approach. Seunghyeon Lee and Ngoduy Dong	Reliable Parcel Routing Policy in a Physical Internet. Ido Orenstein and Tal Raviv
14:30	Finding critical links to estimate a Macroscopic Fundamental Diagram in congested urban networks. Elham Saffari, Mehmet Yildirimoglu and Mark Hickman	A Study on Driver's Stopping Behavior Focusing on Generalization. Hirotohi Shirayanagi, Takahiro Tsubota, Shinya Kurauchi and Toshio Yoshii	Operations Design for High-velocity Intra-city Package Service. Iman Dayarian, Adolfo Rocco Rocco, Alexander Stroh, Martin Savelsbergh, Alejandro Toriello and Alan Erera
15:00	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
15:30	Afternoon Tea		
	<i>Chair: Francois Soumis</i>	<i>Chair: Michael Bell</i>	<i>Chair: Frederic Semet</i>
16:00	Integrated Scheduling and Flow Management in Air Traffic Management Networks. Kai Wang and Alexandre Jacquillat	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	Estimating Vehicle Fleet Composition for Last-Mile Delivery Service. Frederic Semet, Ekaterina Alekseeva, Luce Brotcorne, Youcef Magnouche and Etienne Soufflet
16:30	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	Multi-Period Workload Balance in Last-Mile Urban Delivery. Yang Wang, Lei Zhao and Martin Savelsbergh
17:00	A MIP formulation for the flexible rostering of ground personnel at an international airport. Juan Pablo Cavada, Cristián E Cortés and Pablo A Rey		
19:00	Conference Dinner at Auditorium		

TRISTAN 2019: Schedule for Friday 21 June

9:00	Plenary: Michael Bell -- Designing Greener City Logistics Networks		
10:00	Morning Tea		
	Endeavour Room - Resort Side	Endeavour Room - Beach Side	Chart Room
	<i>Chair: Alan Erera</i>	<i>Chair: Kosuke Kawakami</i>	<i>Chair: Andreas Ernst</i>
10:30	A Priori Routing for Strategic Time Slot Management in Online Grocery Retailing. Thomas Visser and Martin Savelsbergh	A column generation procedure for the Flexible Ship Loading Problem. Jonas Christensen and Dario Pacino	A Survivable p-Hub Median Problem and a Modified Benders Decomposition Method. Hamid Mokhtar, Mohan Krishnamoorthy and Andreas T Ernst
11:00	The pickup and delivery problem with on-line transfers. Paul Bouman, Gizem Ozbaygin and Lucas Veelenturf	Ship routing problem with berthing time clash avoidance constraints and minimizing demurrage. Kosuke Kawakami and Mirai Tanaka	Stochastic Single-Allocation Hub Location. Nicolas Kämmerling, Borzou Rostami, Christoph Buchheim, Joe Naoum-Sawaya and Uwe Clausen
11:30	Tactical Design of Same-Day Delivery Systems. Alexander Stroh, Alan Erera and Alejandro Toriello		An Intermodal Hub Location Problem for Container Distribution in Indonesia. Hamid Mokhtar, Perwira Redi, Mohan Krishnamoorthy and Andreas T Ernst
12:00	Closing and Box (Takeaway) Lunch		