The 12th Annual Swedish Transport Research Conference - STRC 2023

Day 1 - Monday 16 October at KTH, D building (Lindstedtsvägen 3, Stockholm)

Map to location

09:30-10:30 — Registration and coffee in Ljusgården

10:30-11:30 — Welcome, Keynote, Roundtable discussion – Room: D2

11:30-13:00 — Lunch at Syster o Bror (Drottning Kristinas väg 24, Stockholm)

13:00-14:30

Session 1a - Mobility data and design **Chair:** Erik Jenelius **Room:** D2	Session 1b - Rail capacity and scheduling **Chair:** Johan Högdahl **Room:** D33	Session 1c - Freight and electrification **Chair:** Ingrid Johansson **Room:** D34	Session 1d - Automation and perception **Chair:** Wilco Burghout **Room:** D35
Analysis of Route Sets and Attributes in Route Choice Estimation for Urban Traffic Management Using GPS-data (***Anna Danielsson, David Gundlegård and Clas Rydergren***)	Extension of timetable compression approach for assessing the capacity of stations – with turnarounds and alternative track assignment (***Elin Hellblom and Ingrid Johansson***)	Transport workers perceptions of the low-carbon transition: understanding distributional and fairness impacts of electrification, digitalization, and automation (***Jindan Gong, Maria Xylia, Eric Brandstedt, Claudia Strambo and Björn Nykvist***)	Investigation on Effects of Connected and Automated Vehicles (CAVs) on Road Network (***Erfan Aria***)
Identifying mobility styles for leisure travel: A cluster analysis based on a one-month travel survey (***Emma Strömblad***)	Last-minute Crew Rescheduling: Model and Heuristic Approach (***Liyun Yu, Carl Henrik Häll, Anders Peterson and Christiane Schmidt***)	Analysis of policy options to drive the transition to zero-emission road freight transport (***Hadi Farabi-Asl, Selma Brynolf and Maria Grahn***)	Modeling Perception Performance in Miroscopic Traffic Simulation (***Ivan Postigo, Clas Rydergren and Johan Olstam***)
Generating and Evaluating Route Choice Sets for Large Multimodal Public Transport Networks: A Case Study for Stockholm Region (***Anastasios Skoufas, Matej Cebecauer, Wilco Burghout and Erik Jenelius***)	Efficient use of European rail freight corridors: current status and potential enablers (***Boban Djordjevic and Behzad Kornejad***)	The cost impacts of EU ETS and ETD on shipping – the Swedish case (***Emma From, Karin Ek, Inge Vierth and Joar Lind***)	Autonomous Train: Ridership perspective (***Patrick E Urassa and Nils O.E Olsson***)
A Multiple Trip Vehicle Routing Approach to Ferry Service Network Design With Unused Corridors (***Michael Sederlin and Tomas Lidén***)	Capacity Evaluation of ERTMS/ETCS Hybrid Level 3 using Simulation Methods (***Daniel Knutsen, Nils O. E. Olsson and Jiali Fu***)	How to promote cycle logistics as a solution for sustainable urban logistics – Insights from a literature and interview study (***Annika Otto***)	A comprehensive review of viability and operability of dynamic charging solutions for autonomous electric vehicles (***Mohd Aiman Khan, Wilco Burghout, Oded Cats, Erik Jenelius and Matej Cebecauer***)

14:30-15:00 — Coffee (Ljusgården)

15:00-16:30

Session 2a - Mode choice and segregation **Chair:** Mohammad Maghrour Zefreh **Room:** D2	Session 2b - Rail infrastructure **Chair:** Oskar Fröidh **Room:** D33	Session 2c - Logistics electrification **Chair:** Jonas Mårtensson **Room:** D34	Session 2d - Traffic estimation and simulation **Chair:** Albania Nissan **Room:** D35
Mode choice estimation on joint travel survey and mobile phone network data (***Angelica Andersson, Ida Kristoffersson, Andrew Daly and Maria Börjesson***)	Efficiency of the trackwork scheduling process in Sweden (***Daria Ivina***)	Impacts of Regional Electrified Logistics on Drivers' and Transport Planners' Work Environments (***Jana Sochor and Frances Sprei***)	Learning-based Traffic Density Reconstruction with Confidence (***Matthieu Barreau***)
Possibilities to Replace Short-haul Flights with Train Travel when Accounting for Rail Capacity (**Francesco Bruno, Mohammad Maghrour Zefreh, Oskar Fröidh and Oded Cats**)	Coordinated capacity planning of railway infrastructure projects and traffic flows (***Tomas Lidén and Filip Kristofersson***)	Electrification of construction transports – challenges and opportunities (***Anna Fredriksson, Carl-Henrik Häll, Mats Janné, Mats Abrahamsson and Per Lindahl***)	High-Resolution Public Transport Mode Share Estimation from Mobile Network and Smart Card Data (***Matej Cebecauer, David Gundlegård, Erik Jenelius and Wilco Burghout***)
Association between transport access, income, and nativity segregation in Sweden: a mobility perspective using big geolocation data (***Yuan Liao, Jorge Gil, Sonia Yeh, Laura Alessandretti and Rafael H. M. Pereira***)	Assessing the Actual Cost of Railway Infrastructure Upgrades in Norway: A Comparative Analysis for Automatic Train Operations Projects (***Xavier Morin, Nils Olsson and Albert Lau***)	Exploring Sharing Charging Infrastructure for Electrifying Transport in Swedish Construction Industry (***Ru Chen, Lisa Govik and Shuai Li***)	Travel time and Reliability Impacts of Dynamic Bus Lane Operations along an Urban Corridor in a mid-sized Swedish city: A Traffic Micro-Simulation Analysis (***Rihanna Gebrehiwot, Johan Olstam, Carl-Henrik Häll and Kinjal Bhattacharyya***)
Everyday mobility and sustainable citizenship - a living lab approach (***Greger Henriksson, Jessica Berg and Malin Henriksson***)	Finding a better time and contract design for switch renewal (***Kristofer Odolinski, Arne Nissen and Abderrahman Ait Ali***)	What is the effect of charging infrastructure availability on electric truck adoption? An egg-chicken dynamics problem (***Zeinab Raoofi, Morteza Mahmoodi and Anna Pernestål Brenden***)	

18:00-19:30 — Mingle and guided tour at Stockholm Public Transport Museum, (Gasverkstorget 1, Stockholm)

19:30 -- — Dinner at Stockholm Public Transport Museum

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Day 2 - Tuesday 17 October at KTH, D building (Lindstedtsvägen 3, Stockholm)

08:00-08:30 — Arrival and coffee (Ljusgården)

	Session 3a - PT planning and organization **Chair:** Erik Jenelius — **Room:** D2	Session 3b - Rail reliability **Chair:** Boban Djordjevic — **Room:** D33	Session 3c - Fuel and energy **Chair:** Lars E Olsson — **Room:** D34	Session 3d - E-scooters **Chair:** Lena Winslott Hiselius — **Room:** D35
08:30-10:00	Developing a planning tool for Swedish Bus Rapid Transit (BRT). A Delphi-approach (***Jakob Allansson, Fredrik Pettersson-Löfstedt and Joel Hansson***)	Impact of a lower passenger demand during the COVID-19 pandemic on the frequency of dwell time delays (***Ruben A. Kuipers and Carl-William Palmqvist***)	Future fuel mix for passenger cars in different socio-geographical contexts: Results from energy systems modeling (***Maria de Oliveira Laurin, Maria Grahn and Maria Taljegard***)	Attitudes and Perceptions of Shared E-Scooter Parking in Stockholm, Gothenburg and Malmö (***Boel Berg Wincent, Erik Jenelius and Wilco Burghout***)
	The cost effects of age requirements of buses in competitive tendering (***Helene Lidestam, Carolina Camén and Panagiota Tsaxiri***)	Modelling the reliability of train transfers (***Nils Breyer, Alice Ingå and Anders Peterson***)	The impact of company cars on fuel choice and car characteristics (***Carl Berry and Maria Börjesson***)	Modeling e-scooter sharing demand and its influencing factors - A spatial machine learning approach (***Omkar Parishwad and Kun Gao***)
	Staggering school start times to cut traffic peaks – Why is it so hard? (***Eva-Lena Eriksson, Helene Lidestam and Lena Hiselius***)	Applying Simulation-assisted Machine Learning to Increase Yard Departure Predictability (***Niloofar Minbashi, Jiaxi Zhao, Tyler Dick and Markus Bohlin***)	Plug-in hybrid electric vehicle driving behavior: the differences in the share of electrified kilometers between countries (***Ahmet Mandev and Frances Sprei***)	The Dynamic Routing Problem for E-scooter Charging with Battery Swapping Strategies (***Jiaming Wu, Balázs Kulcsár and Xiaobo Qu***)
	Context matters: A study of management's and employees' perceptions of change context in traffic management (***Paulina Ekendahl, Izabelle Bäckström, Dag Naslund and Andreas Norrman***)	Rail Platform Allocation for Reliable Interchanges (***Ingrid Johansson and Anders Peterson***)	Stochastic modeling of quantity and price dynamics in the Swedish gasoline market (***Ritvana Rrukaj and Leif Sandal)***	

10:00-10:30 — Coffee (Ljusgården)

	Session 4a - MaaS and integration **Chair:** Jiali Fu — **Room:** D2	Session 4b - Rail disruptions **Chair:** Hans Sipilä — **Room:** D33	Session 4c - City logistics **Chair:** Behzad Kordnejad — **Room:** D34	Session 4d - EV:s and e-bikes **Chair:** Sonia Yeh — **Room:** D35
10:30-12:00	Putting Users First? A Multi-sited Study of Public Transport Authorities' Approaches to MaaS Implementation (***Jana Sochor, Dalia Mukhtar-Landgren and Mats Fred***)	The Impacts of Weather on Railway Infrastructure in Sweden (***Michelle Ochsner, Carl-William Palmqvist and Rachel Fisher***)	Collaborative electric vehicle routing problems (***Fangting Zhou, Ala Arvidsson, Jiaming Wu and Balázs Kulcsár***)	A stochastic programming approach to develop the uncertainties in coupled transportation and distribution networks (***Arsalan Najafi and Kun Gao***)
	Tensions, Mobility Services and MaaS (***Hampus Berg Mårtensson, Mattias Höjer and Jonas Åkerman***)	Handling unplanned events with unattended train operation in a mainline railway system (***Emil Jansson, Nils O.E. Olsson and Oskar Fröidh***)	A city hubs system dynamics model from the perspective of logistics service providers and receivers (***Claudia Andruetto, Anna Pernestål and Jonas Mårtensson***)	A GPS-logging and survey-based analysis of charging infrastructure requirements - a Swedish case study of electric vehicles (***Yuki Kobayashi, Filip Johnsson and Maria Taljegård***)
	Organising seamless door-to-door journeys involving public transport (***Russell Cannon***)	The Risk of Train Delay as Imposed by Railway Incidents: A Case of the Swedish Railway Network (***Grace Mukunzi and Carl-William Palmqvist***)		A dollhouse with bi-directional charging: A behavioral study with users of V2G (***Érika Martins Silva Ramos, Jonas Andersson, Thomas Lindgren, Jens Hagman and Max Fransson***)
	Mobility-as-a-Service (MaaS) adoption: one prescription for everyone? (***Mohammad Maghrour Zefreh and Belal Edries***)			

12:00-13:30 — Lunch at Syster o Bror (Drottning Kristinas väg 24, Stockholm)

	Session 5a - Travel behavior and society **Chair:** Fariya Sharmeen — **Room:** D2	Session 5b - Delay prediction **Chair:** Niloofar Minbashi — **Room:** D33	Session 5c - Traffic simulation and emissions **Chair:** Albania Nissan — **Room:** D34	Session 5d - EV charging **Chair:** Jan Persson — **Room:** D35
13:30-15:00	For the Price of Freedom - Transport behavior and possibility of change (***Gustav Lopez Svensson and Lena Winslott Hiselius***)	Evaluation Method of Data-Driven Train Delay Prediction Models (***Kah Yong Tiong, Zhenliang Ma and Carl-William Palmqvist***)	Microsimulation-based Traffic and Emission Impact Evaluation of Speed Geofencing in an Urban Environment (***Kinjal Bhattacharyya, Rihanna Gebrehiwot, Johan Olstam and Fredrik Johansson***)	Multi-agent-based fast charging infrastructure allocation for long-distance trips of the full-electric passenger car fleet in Sweden (***Hamoun Pourroshanfekr Arabani, Mattias Ingelström, Mats Alaküla and Francisco J. Márquez-Fernández***)
	Experiences of active and not so active commuters in Gothenburg: A case study (***Edward Prichard and Katrin Lättman***)	Application of deep learning methods towards delay prediction of trains, and comparison with existing model (***Pranjal Mandhaniya, Nils O. E. Olsson, Anders S. Larsen and Caroline Skjøren***)	DiGital twin for Emission MonItoring aNd predIction – Kista Case (***Peiling Wu, Zhenliang Ma and Anton Gustafsson***)	Public Megawatt Charging for Trucks in Europe - a Model Comparison (***Wasim Shoman, Patrick Plötz, Sonia Yeh, Frances Sprei and Daniel Speth***)
	Integrating PLS-SEM, NCA, and fsQCA to expand our analytical toolbox for deeper insights: A case of the aging population (***Alexandre Sukhov, Margareta Friman and Lars Olsson***)	Data-Driven Causality Discovery for Bus Arrival Delays in Urban Public Networks (***Qi Zhang, Zhenliang Ma and Erik Jenelius***)	Capability of e-bikes to reduce carbon emissions from private cars (***Çağlar Tozluoğlu, Yuan Liao and Frances Sprei***)	Locating charging infrastructure for freight transport using multiday travel data (***Jiali Fu, Arne Nåbo and Harrison John Bhatti***)
	Integration of public transport: A systematic literature review of the social impact of paratransit (***Brianne Nichols, Érika Martins Silva Ramos, Lars E. Olsson, Cecilia Jakobsson Bergstad and Margareta Friman***)	Detecting metro service disruptions and predicting their network wide domino effects using large scale vehicle location data (***Mohammad Maghrour Zefreh, Oskar Fröidh and Weizhi Michelle Teo***)	Energy reduction potential of a decreased parking supply at housing (***Fredrik Johansson, Greger Henriksson, Jonas Åkerman and Pelle Envall***)	Charging infrastructure needs and energy use for 100% BEV penetration: a case study of the Västra Götaland (VG) region (***Yuan Liao, Caglar Tozluoglu, Frances Sprei, Sonia Yeh and Swapnil Dhamal***)