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## Sunday, January 12, 2020

### **P20-21120 Modeling Different Sources of Variability in Human Factors Experiments**

Workshop

1:30 PM-4:30 PM

Convention Center, 102A

Birsen Donmez, Braden Hansma.

### **Emerging Mobility Services for the Transportation Disadvantaged: New Pilot Programs and Assessment of Social Benefit**

Workshop

1:30 PM-4:30 PM

Convention Center, 145A

Steven Farber.

## Monday, January 13, 2020

### **L-1102 New Ways of Thinking About Decision Making in Travel Demand Modeling**

Lecturn Session

8:00 AM-9:45 AM

Convention Center, 146B

Khandker Nurul Habib (discussant), Eric Miller (discussant).

### **20-03672 An Empirical Performance Analysis of Bus Speed and Delay at Intersections for Emerging Spot Improvement Programs**

Lecturn Session

8:00 AM-9:45 AM

Convention Center, 149

Graham Devitt, Mahmood Mahmoodi Nesheli, Ehab Diab, Amer Shalaby.

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## **20-01053 Express Package Delivery Optimization Using Walkers, Cargo Bicycles and Delivery Trucks**

Poster Session

8:00 AM-9:45 AM

Convention Center, Hall A, Poster B304

Patrick Meredith-Karam, Jia Jiang, Sina Bahrami, Matthew Roorda.

## **20-00898 Looking through the Perceptions of Blinds**

Lecturn Session

8:00 AM-9:45 AM

Convention Center, 145A

Sina Azisisoldouz, Md Sami Hasnine, Mahadeo Sukhai, Khandker Nurul Habib.

## **20-00446 Will Connected Autonomous Vehicles be able to Communicate with Visually Impaired**

Poster Session

8:00 AM-9:45 AM

Convention Center, Hall A, Poster location-A151

Sina Azisisoldouz, Md Sami Hasnine, Mahadeo Sukhai, Khandker Nurul Habib.

## **20-00921 Exploring the Ridership Impacts of Ride-hailing on Multimodal Public Transit**

Poster Session

10:15 AM-12:00 PM

Convention Center, Hall A, Poster location-B312

Wenting Li, Amer Shalaby, Khandker Nurul Habib.

## **20-00091 Measuring When Uber Behaves as a Substitute or Complement to Transit: An Examination of Travel-time Differences in Toronto**

Poster Session

10:15 AM-12:00 PM

Convention Center, Hall A, Poster B303

Mischa Young, Jeff Allen, Steven Farber.

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## **20-04000 Improving Transfer Time Optimization Modelling for Public Transit Systems**

Poster Session

10:15 AM-12:00 PM

Convention Center, Hall A, Poster location B322

Zahra Ansarilari, Mahmood Mahmoodi Nesheli, Merve Bodur, Amer Shalaby, Siva Srikuenthiran.

## **P20-20919 A Prospectus for Improved Long-Distance Travel Demand Models**

Committee Meeting

12:15 PM-1:15 PM

Mariott Marquis, Liberty Salon J (M4)

Eric Miller

## **20-00280 Travel Distance and Land Use**

Poster Session

1:30 PM-3:15 PM

Convention Center, Hall A, Poster location-B357

Jason Hawkins, Khandker Nurul Habib.

## **20-00460 An Inductive Experimental Approach to Developing a Web-based Travel Survey**

Poster Session

1:30 PM-3:15 PM

Convention Center, Hall A, Poster location-B379

Brittany Chung, Siva Srikuenthiran, Eric Miller, Khandker Nurul Habib.

## **20-00687 Transportation Demand Management (TDM) and Social Justice**

Lecturn Session

1:30 PM-3:15 PM

Convention Center, 150B

Md Sami Hasnine, Khandker Nurul Habib.

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## **20-02230 Inferring the Purposes of Using Ride-Hailing Services through Data Fusion**

Lecturn Session

1:30 PM-3:15 PM

Convention Center, 156

Sanjana Hossain, Khandker Nurul Habib.

## **20-00882 The Symbiosis between Subway Disruption and a Surge in Ride-Hailing Trips**

Lecturn Session

3:45 PM-5:30 PM

Convention Center, 144B

Jason Hawkins, Khandker Nurul Habib.

## **20-00724 A Choice Model-based Analysis of Accessibility by Transit in Toronto**

Poster Session

3:45 PM-5:30 PM

Convention Center, Hall A, Poster location-A155

Patrick Loa, Khandker Nurul Habib.

## **20-00724 On the Role of Land-Use and Transit Network Attributes Influencing Ride Hailing**

Poster Session

3:45 PM-5:30 PM

Convention Center, Hall A, Poster location-A156

Patrick Loa, Sanjana Hossain, Khandker Nurul Habib.

## **20-01157 Effects of Built Environment and Weather on Demands for TNC**

Poster Session

3:45 PM-5:30 PM

Convention Center, Hall A, Poster location-A145

Md Sami Hasnine, Jason Hawkins, Khandker Nurul Habib.

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## **20-00105 Is Uber Poaching Taxi Customers? – A Study of User Profiles**

Lecturn Session

3:45 PM-5:30 PM

Convention Center, 146B

Gozde Ozonder, Eric Miller.

## **Tuesday, January 14, 2020**

## **20-01802 Data-Driven Approach to Capture the Association Between Local Truck Movements and Near-Road Black Carbon Concentrations Using Mobile Measurements**

Poster Session

8:00 AM-9:45 AM

Convention Center, Hall A, Poster location A228

Junshi Xu, An Wang, Ran Tu, Marc Saleh, Nicole Schmidt, Marianne Hatzopoulou.

## **20-02010 Multi-Objective Eco-Routing in a Distributed Traffic Management Framework with a Case Study of Downtown Toronto**

Poster Session

8:00 AM-9:45 AM

Convention Center, Hall A, Poster location A229

Shadi Djavadian, Lama Alfaseeh, Ran Tu, Bilal Farooq, Marianne Hatzopoulou.

## **20-00729 A Study on the Effect of the Type of Performance Indicator on Pavement Performance Models Developed Using Machine Learning: The Case of Pavement Condition Index and International Roughness Index**

Poster Session

8:00 AM-9:45 AM

Convention Center, Hall A, Poster location B331

Madeh Piryonesi, Tamer El-Diraby.

## **20-01365 Urban Rail Service Design for Collaborative Passenger and Freight Transport**

Lecturn Session

10:15 AM-12:00 PM

Convention Center, 144A

Zhujun Li, Amer Shalaby, Matthew Roorda, Baohua Mao.

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## **20-00740 Electric Vehicle Charging Optimization to Minimize Marginal Greenhouse Gas Emissions**

Poster Session

10:15 AM-12:00 PM

Convention Center, Hall A, Poster location A128

Ran Tu, Yijun Gai, Bilal Farooq, Marianne Hatzopoulou.

## **20-00078 Lessons from a Large-Scale Experiment on the Use of Smartphone Apps**

Lecturn Session

1:30 PM-3:15 PM

Convention Center, 152B

Ahmadreza Faghih Imani, Chris Harding, Siva Sriukenthiran, Eric Miller, Khandker Nurul Habib.

## **20-00202 Assessing Smartphone Apps as Full-Fledged Tools for Activity**

Lecturn Session

1:30 PM-3:15 PM

Convention Center, 152B

Ahmadreza Faghih Imani, Chris Harding, Siva Sriukenthiran, Eric Miller, Khandker Nurul Habib.

## **L-1518 Travel Modeling for New Applications**

Lecturn Session

1:30 PM-3:15 PM

Convention Center, 145A

Khandker Nurul Habib (discussant).

## **20-04214 Driver Take-over Performance and Monitoring Behaviour with Driving Automation at System-Limit versus System-Malfunction Failures**

Lecturn Session

1:30 PM-3:15 PM

Convention Center, 103B

Chelsea DeGuzman, Samantha Hopkins, Birsen Donmez.

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## **20-00677 Capacity-Constrained Bus Bridging Optimization Framework**

Poster Session

1:30 PM-3:15 PM

Convention Center, Hall A, Poster location A196

Alaa Itani, Siva Srikukenthiran, Amer Shalaby.

## **20-00391 Who Are the Potential Users of Shared E-Scooters? An Examination of Socio-demographic, Attitudinal and Environmental Factors**

Poster Session

1:30 PM-3:15 PM

Convention Center, Hall A, Poster location A193

Raktim Mitra, Paul Hess.

## **20-00470 Dual-Objective Transit Signal Priority for Improving Speed and Reliability of High-Frequency Lines: A Deep Reinforcement Learning Approach**

Poster Session

1:30 PM-3:15 PM

Convention Center, Hall A, Poster location A206

Wen Xun Hu, Amer Shalaby, Baher Abdulhai.

## **20-02452 Evaluating Walkable Streets with a 3D Stated Preference Survey**

Poster Session

3:45 PM-5:30 PM

Convention Center, Hall A, Poster location-A189

Dena Kasraian, Sneha Adhikari, David Kossowsky, Michael Luubert, Brent Hall, Jason Hawkins, Khandker Nurul Habib, Jeremy Bowes, Sara Diamond, Paul Hess, Judy Farvolden, Matthew Roorda.

## **20-03653 Existing Problems of Transit Signal Priority on Streetcar Routes**

Lecturn Session

3:45 PM-5:30 PM

Convention Center, 147B

Ivan Kwong, Mehdi Nourinejad, Amer Shalaby.

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## **20-04604 Whose Buses Run on Time? The Social Equity of Bus On-time Performance in Canada's Largest City**

Poster Session

3:45 PM-5:30 PM

Convention Center, Hall A, Poster location A124

Matthew Palm, Amer Shalaby, Steven Farber.

## **20-02057 Spatial Access by Public Transport and Likelihood of Healthcare Consultations at Hospitals**

Poster Session

3:45 PM-5:30 PM

Convention Center, Hall A, Poster location A189

Boer Cui, Geneviève Boisjoly, Rania Wasfi, Heather Orpana, Kevin Manaugh, Ron Buliung, Yan Kestens, Ahmed El-Geneidy.

## **20-01241 The Role of Public Transit in School Choice and After-School Activity Participation: A Study of Toronto Area High School Students**

Poster Session

6:00 PM-7:30 PM

Convention Center, Hall A, Poster location A142

Matthew Palm, Steven Farber.

## **Wednesday, January 15, 2020**

### **20-00218 A Joint Model of Place of Residence and Place of Work**

Poster Session

8:00 AM-9:45 AM

Convention Center, Hall A, Poster location-A132

Hengyang Zhang, Jason Hawkins, Khandker Nurul Habib.

### **20-00220 Heterogeneity in Marginal Cost of Urban Mobility**

Poster Session

8:00 AM-9:45 AM

Convention Center, Hall A, Poster location-A133

Jason Hawkins, Khandker Nurul Habib.



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## **A Joint SP-Pivoted-off-RP Survey to Understand the Impacts and Utilization of Ride-Hailing Services and the Determinants of Travel Mode Choice in the City of Toronto**

Committee Meeting

8:00 AM-9:45 AM

Mariott Marquis, Chinatown (M3)

Patrick Loa, Jason Hawkins, Khandker Nurul Habib.

## **20-00914 Office Commuting Patterns in the Greater Toronto Area: The Importance of Automobile Mode Share in Understanding the Full Impact of Urban Form on Vehicle Kilometers Travelled**

Lecturn Session

8:00 AM-9:45 AM

Convention Center, 140B

Yang Xi, Jeff Allen, Steven Farber, Eric Miller, Robert Keel.

## **20-00198 An Agent-based Simulation Model for Evaluation of Parking Policies in the Era of Autonomous Vehicles**

Poster Session

8:00 AM-9:45 AM

Convention Center, Hall A, Poster location B540

Sina Bahrami, Matthew Roorda.

## **20-01364 The Rise and Fall of Transit Ridership across Canada: Understanding the Determinants**

Poster Session

8:00 AM-9:45 AM

Convention Center, Hall A, Poster location B392

Ehab Diab, Dena Kasraian, Eric Miller, Amer Shalaby.

## **20-02942 Transit Demand Determinants: An Empirical Analysis of Long-run Elasticities and Asymmetric Effects**

Poster Session

8:00 AM-9:45 AM

Convention Center, Hall A, Poster location B392

Lisa Li

Dena Kasraian, Amer Shalaby.

Organized by date and time. Compiled by Jason Hawkins.

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## **20-01031 A Machine Learning Approach for Predicting Near-Road Ultrafine Particle Concentrations Using Local Traffic Characteristics**

Lecturn Session

10:15 AM-12:00 PM

Convention Center, 140A

Junshi Xu, An Wang, Nicole Schmidt, Matthew Adams, Marianne Hatzopoulou.

## **20-00619 Planning Transport for Social Inclusion: An Accessibility-Activity Participation Approach**

Lecturn Session

10:15 AM-12:00 PM

Convention Center, 140B

Jeff Allen, Steven Farber.

## **20-00338 Investigation of Relationship Between Pavement Condition Index and International Roughness Index of Asphalt Roads Based on the Long-Term Pavement Performance Data**

Poster Session

10:15 AM-12:00 PM

Convention Center, Hall A, Poster location B350

Madeh Piryonesi, Tamer El-Diraby.

## **20-05451 The Role of Habits in Cell Phone-Related Driver Distractions**

Lecturn Session

2:30 PM-4:00 PM

Convention Center, 102B

Braden Hansma, Susana Marulanda, Huei-Yen "Winnie" Chen, Birsen Donmez.

## **20-00112 A Prototype Model of Ridehailing Service Provision**

Poster Session

2:30 PM-4:00 PM

Convention Center, Hall A, Poster location A100

Francisco Calderon, Eric Miller.

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## Thursday, January 16, 2020

### **P20-20177 Near-Road Air Quality: Lessons from Outside the US**

Workshop

8:00 AM-12:00 PM

Convention Center, 204B

Marianne Hatzopoulou.