Date & Location	EVENT	Presentation / Poster Title	Presenters
Monday, January 8 08:00 - 09:45 AM Convention Center, Hall A, B553	Poster Session 2052 Leveraging food delivery programs as a community resilience resource: A demand-driven spatial and temporal analysis of need	Leveraging food delivery programs as a community resilience resource: A demand-driven spatial and temporal analysis of need	 Gretchen Bella, Northwestern Elisa Borowski, University of California, Irvine Amanda Stathopoulos, Northwestern
Monday, January 8 10:15 AM- 12:00 PM ET Convention Center, Hall A, A201	Poster Session 2099 Innovations in Big Urban Data Applications	V2V4Real: A Real- world Large-scale Dataset for Vehicle-to-Vehicle Cooperative Perception	• Xiaoyu Dong, Northwestern
Monday, January 8 10:15 AM- 12:00 PM ET Convention Center, Hall A, B501	Poster Session 2117 Current Research in Rail Equipment	Abatement Cost Curve Analysis of Freight Rail Decarbonization Alternatives	 Adrian Hernandez, Northwestern Max Ng, Northwestern Choudhury Siddique, Argonne National Laboratory (ANL) Pablo Durango-Cohen, Northwestern Amgad Elgowainy, ANL Hani Mahmassani, Northwestern Michael Wang, ANL Yan Zhou, ANL
Monday, January 8 1:30 PM- 3:15 PM ET Convention Center, Room A, 152B	Lectern Session 2129 Network Modeling in the Era of Shared Mobility	Semi-on-Demand Hybrid Transit Route Design with Shared Autonomous Mobility Services	 Max Ng, Northwestern Florian Dandl, Technische Universitat Munchen Hani Mahmassani, Northwestern Klaus Bogenberger, Technische Universitat Munchen
Monday, January 8 1:30 PM- 3:15 PM ET Convention Center, Hall A, A241	Poster Session 2161 Unveiling the Journey: Analyzing Travel Behavior Across the COVID-19 Spectrum	Passenger Time Use Comparison Between Traditional and Autonomous Vehicles: A Latent Class and Transition Analysis	 Nadim Hamad, Northwestern Divyakant Tahlyan, Northwestern Hoseb Abkarian, Northwestern Hani Mahmassani, Northwestern
Monday, January 8 1:30 PM- 3:15 PM ET	Poster Session 2162 Navigating the Future: Analyzing	Do words matter? Autonomous, Self- Driving, or	Vasileios Volakakis, Northwestern

	Evolving Vehicle	Driverless Vehicles	•	Hoseb Abkarian,
Convention Center,	Ownership Trends	the impact of		Northwestern
Hall A, A240		word choice on	•	Nadim Hamad, Northwestern
		individual	•	Hani Mahmassani,
		perceptions		Northwestern
Monday, January 8	Poster Session 2171	The Return to	•	Spencer Aeschliman,
1:30 PM-	Examining the Equity	Transit in a		Northwestern
3:15 PM ET	Impact of	Changing	•	Amanda Stathopoulos,
	Transportation	Landscape:		Northwestern
Convention Center,	Policies and	Telework and		
Hall A, B677	Practices	Safety Concerns		
Monday, January 8	Lectern Session	Is Transit Providing	•	Erik Huang, Northwestern
3:45 PM-	2198	Fair Service?	•	Amy Hofstra, University of
5:30 PM ET	Examining the Equity	Analyzing Public		Illinois, Chicago
	Impact of	Perceptions of	•	Amanda Stathopoulos,
Convention Center,	Transportation	Equity Ideals in		Northwestern
146A	Policies and	Chicago, IL		
Manday Jamman O	Practices	Duranaia Traffia		The standard second st
Monday, January 8	Poster Session 2226	Dynamic Traffic	•	Hani Mahmassani,
3:45 PM-	Current Issues in	Assignment with		Northwestern
5:30 PM ET	Aviation	Multi-Dimensional Air Traffic Flow	•	Vasileios Volakakis,
Convention Conter		Models: A		Northwestern
Convention Center, Hall A, B657		Solution for Urban	•	Christopher Cummings, United
nali A, 6037		Air Mobility Traffic		Airlines, Inc.
		Flow Management		
Monday, January 8	Poster Session 2231	A Systematic	•	Angeli Jayme, University of
6:00 PM-	Intelligent	Approach to	•	Illinois, Urbana-Champaign
7:30 PM ET	Transportation	Evaluate the State	•	Berkan Usta, WSP-USA
, 100 1 101 21	Systems	of Illinois'	•	Nadim Hamad, Northwestern
Convention Center,		Preparedness for		Divyakant Tahlyan,
Hall A, B729		Smart Mobility		Northwestern
,		,	•	Breton Johnson, Northwestern
				Hani Mahmassani,
				Northwestern
			•	Imad Al-Qadi, University of
			-	Illinois, Urbana-Champaign
			•	Jerry Quandt, Mobility IL
Monday, January 8	Poster Session 2234	Investigating	•	Sharika Hegde, Northwestern
6:00 PM-	Traffic Flow Theory,	Conflicts, Lane		Hani Mahmassani,
7:30 PM ET	Part 2: Microscopic	Changes, and		Northwestern
,	Traffic Models and	Platoons in	•	Yanlin Zhang, University of
Convention Center,	Trajectory Analysis	Relation to Local	•	
Hall A, B719	(Part 1, Session	Densities along a		Illinois, Urbana-Champaign
	2233; Part 3, Session	Congested	•	Alireza Talebpour, University
	4068; Part 4, Session	Freeway Weaving		of Illinois, Urbana-Champaign
	4069)	Section	•	Samer Hamdar, George
	10007	50000		Washington University

Tuesday , January 9 8:00 AM- 9:45 AM ET Convention Center, Salon C	Lectern Session 3002 Network Modeling and Control	Game-theoretical approach to decentralized multi-drone conflict resolution and emergent traffic flow operations	 Serge Hoogendoorn, Technische Universiteit, Delft Victor Knoop, Delft University of Technology Hani Mahmassani, Northwestern Sascha Hoogendoorn-Lanser, Delft University of Technology
Tuesday, January 9 8:00 AM- 9:45 AM ET Convention Center, Hall A, A213	Poster Session 3045 Passive Data Collection in Travel Surveys	Processing and Validating Passively Generated Mobile Phone Data for Commute Pattern Estimation: a Case Sstudy from Chicago	 Tianxing Dai, Northwestern Gretchen Bella, Northwestern Peeter Kivestu, Oplytix, LLC Amanda Stathopoulos, Northwestern Yu Nie, Northwestern
Tuesday, January 9 8:00 AM- 9:45 AM ET Convention Center, Hall A, A202	Poster Session 3059 Expanding Our Knowledge of Transportation and Health	"I'm Pissed Off with the Whole System": A Qualitative Analysis of Barriers to Healthcare Access Faced by Low-Income Older Adults in Chicago	 Gretchen Bella, Northwestern Elisa Borowski, University of California, Irvine Amanda Stathopoulos, Northwestern
Tuesday, January 9 8:00 AM- 9:45 AM ET Convention Center, Hall A, A203	Poster Session 3059 Expanding Our Knowledge of Transportation and Health	A 'Near Undefinable Aspect to Social Interaction in Person': An Exploration of the Subjective Value of Travel Through the Words of LGBTQ+ Young Adults	 Elisa Borowski, University of California, Irvine Amanda Stathopoulos, Northwestern
Tuesday, January 9 10:15 AM- 12:00 PM ET Convention Center, Salon C	Lectern Session 3069 Car-Following and Lane-Changing Theory Revisited	An Investigation of Discretionary Lane- changing Decisions: Insights From the Third Generation	 Yanlin Zhang, University of Illinois, Urbana-Champaign Alireza Talebpour, University of Illinois, Urbana-Champaign Hani Mahmassani, Northwestern
Tuesday, January 9 10:15 AM- 12:00 PM ET	Poster Session 3118 Fatigued by Fatigue Cracking: Asphalt	SIMulation (TGSIM) Dataset On the Impact of Delivery Vehicles on Pavement Performance in	 Samer Hamdar, George Washington University Callahan Skiles, Northwestern Jing Yu, Northwestern Pablo Durango-Cohen, Northwestern

Convention Center, Hall A, B721	Pavement Solutions to Improve Cracking	Residential Areas: A Case Study in Evanston, Illinois	
Tuesday, January 9 10:15 AM- 12:00 PM ET Convention Center, Hall A, B584	Poster Session 3119 Responding to Natural and Humanmade Disasters of Different Scales: Our Society and Our Efforts	Resource-Sharing Behavior During Flooding Events: A Latent Class Analysis to Guide Community-Based Relief Distribution	 Chi-Ya Chou, Northwestern Elisa Borowski, University of California, Irvine Amanda Stathopoulos, Northwestern
Tuesday, January 9 1:30 PM- 3:15 PM ET Marriott Marquis, Liberty Salon P (M4)	Emerging Methods Subcommittee, AEP50(1)	Planning and Forecasting, Data and Information Technology, Policy	 Amanda Stathopoulos, Northwestern, presiding Naveen Eluru, University of Central Florida, presiding
Tuesday, January 9 1:30 PM- 3:15 PM ET Marriott Marquis, Liberty Salon I (M4)	Data for Decision Making Committee	Data and Information Technology	 Joseph Schofer, Northwestern, presiding Susan Martinovich, HNTB Corporation, presiding
Tuesday, January 9 1:30 PM- 3:15 PM ET Convention Center, Hall A, A200	Poster Session 3167 Safe and Smart Transportation Systems Powered by Artificial Intelligence	Bridging the Domain Gap for Multi-Agent Perception	 Runsheng Xu, University of California, Los Angeles Jinlong Li, Cleveland State University Xiaoyu Dong, Northwestern Hongkai Yu, Cleveland State University Jiaqi Ma, University of California, Los Angeles
Tuesday, January 9 3:45 PM- 5:30 PM ET Convention Center, 150A	Lectern Session 3184 Big Data Approaches in Travel Surveys	A Bias Paradox: an evaluation of data representativeness and effects of smart phone privacy restrictions on passively- generated mobile phone data	 Gretchen Bella, Northwestern Tianxing Dai, Northwestern Peeter Kivestu, Oplytix, LLC Yu Nie, Northwestern Amanda Stathopoulos, Northwestern
Tuesday, January 9 3:45 PM- 5:30 PM ET	Lectern Session 3185 Design and Operations of	Is Order-2 Proportionality Good Enough for Approximating the	 Liyang Feng, Southwest Jiaotong University Jun Xie, Southwest Jiaotong University
Convention Center, 152B	Transportation and	Most Likely Path Flow in User	Xiaobo Liu, Southwest Jiaotong University

Tuosday, Japuary 0	Electrification Networks Lectern Session	Equilibrium Traffic Assignment?	 Youhua Tang, Southwest Jiaotong University David Wang, Nanyang Technological University Yu Nie, Northwestern
Tuesday, January 9 3:45 PM- 5:30 PM ET Convention Center, 144C	Advances in Last- Mile Package Delivery and Logistics	Modeling Ridehail Customers' Willingness to Help with Package Delivery in an Autonomous Mixed-service Fleet Operation	 Hoseb Abkarian, Northwestern Nadim Hamad, Northwestern Hani Mahmassani, Northwestern
Tuesday, January 9 3:45 PM- 5:30 PM ET Convention Center, Hall A, A132	Poster Session 3216 The Effects of Information and Communication Technologies on Transportation Choices	A Random Intercept Latent Transition Analysis (RI-LTA) of Consumer Spending Across Online and In- Person Channels Through the Pandemic	 Hani Mahmassani, Northwestern Divyakant Tahlyan, Northwestern Amanda Stathopoulos, Northwestern Maher Said, Northwestern Susan Shaheen, University of California, Berkeley Joan Walker, University of California, Berkeley
Tuesday, January 9 3:45 PM- 5:30 PM ET Convention Center, Hall A, A130	Poster Session 3216 The Effects of Information and Communication Technologies on Transportation Choices	Modeling Ridehailing Shift Before and After the COVID-19 Pandemic: An Ordered Logit Approach	 Draco Tong, Northwestern Hoseb Abkarian, Northwestern Nadim Hamad, Northwestern Hani Mahmassani, Northwestern
Tuesday, January 9 3:45 PM- 5:30 PM ET Convention Center, Hall A, A131	Poster Session 3216 The Effects of Information and Communication Technologies on Transportation Choices	The Emergence of Third Places beyond Central Cores: A Case Study of Chicago	 Nadim Hamad, Northwestern Divyakant Tahlyan, Northwestern Ying Chen, Northwestern Hani Mahmassani, Northwestern
Tuesday, January 9 6:00 PM- 7:30 PM ET Convention Center, Hall A, B553	Poster Session 3229 Vehicle-Highway Automation, Part 2 (Part 1, Session 3162; Part 3, Session 4028)	Man vs. Machine: A Closer Look at the Differences Between Human Driver Behavior and Automated Vehicle Decision- Making	 Alireza Talebpour, University of Illinois, Urbana-Champaign (UIUC) Hani Mahmassani, Northwestern Samer Hamdar, George Washington University Chun-Chien Hsiao, UIUC Dana Monzer, Northwestern

			 Nachuan Li, Northwestern Rami Ammourah, UIUC Tina Radvand, UIUC Victor Okoth, Northwestern Yanlin Zhang, UIUC
Wednesday, January 10 8:00 AM- 9:45 AM ET Convention Center, 152B	Lectern Session 4006 How Could Technology and Post- Pandemic Work Norms Change Travel Behavior?	From Intention to Action: A Longitudinal Examination of Factors Contributing to Active Transportation Mode Shifts Amid and After Pandemic	 Fan Yu, Arizona State University Amanda Stathopoulos, Northwestern University Hani Mahmassani, Northwestern University
Wednesday, January 10 8:00 AM- 9:45 AM ET Convention Center, Hall A, B745	Poster Session 4027 Omnibus Session on Bicycle Modeling and Shared Micromobility Research	Is Competition for Losers in Dockless Bikesharing?	 Hongyu Zheng, Northwestern Kenan Zhang, Ecole Polytechnique Federale de Lausanne Yu Nie, Northwestern
Wednesday, January 10 10:15 AM- 12:00 PM ET Convention Center, Hall A, A162	Poster Session 4069 Traffic Flow Theory, Part 4: Traffic Modeling, Monitoring, and Control (Part 1, Session 2233; Part 2, Session 2234; Part 3, Session 4068)	A Close Look into the Spatio- Temporal Distribution of Speed, Lane Changes and Heavy Vehicles in a CongestedFreeway Weaving Section	 Nachuan Li, Northwestern Hani Mahmassani, Northwestern Yanlin Zhang, University of Illinois, Urbana-Champaign Alireza Talebpour, University of Illinois, Urbana-Champaign Samer Hamdar, George Washington University
Wednesday, January 10 10:15 AM- 12:00 PM ET Convention Center, Hall A, B551	Poster Session 4071 Transportation Network Modeling Mega Poster Session	Entropy Maximization in Multi-class Traffic Assignment	 Qianni Wang, Northwestern Liyang Feng, Southwest Jiaotong University Jiayang Li, Northwestern Jun Xie, Southwest Jiaotong University Yu Nie, Northwestern
Wednesday, January 10 10:15 AM- 12:00 PM ET Convention Center, Hall A, B550	Poster Session 4071 Transportation Network Modeling Mega Poster Session	Express Bus Service Design for Accessibility and Equity Improvement	 Tianxing Dai, Northwestern Hani Mahmassani, Northwestern Yu Nie, Northwestern

January 10TransportationRepositioning forUniversitat Munchen10:15 AM-Network ModelingOn-Demand• Hani Mahmassani,12:00 PM ETMega Poster SessionRidepoolingNorthwesternServices• Klaus Bogenberger, Technisci	he
12:00 PM ET Mega Poster Session Ridepooling Services Northwestern • Klaus Bogenberger, Technisco	he
Services • Klaus Bogenberger, Technisc	he
indus bogenberger, reennise	he
	iii C
Convention Center, Universitat Munchen	
Hall A, B553	
Wednesday, Poster Session 4071 Local Area • Sharika Hegde, Northwester	n
January 10 Transportation Directional • Hani Mahmassani,	
10:15 AM- Network Modeling Network Northwestern	
12:00 PM ET Mega Poster Session Fundamental	
Diagrams for Travel	
Convention Center, Time Estimation in	
Hall A, B552 Dynamic Rideshare	
Fleet Operations	
Wednesday, Poster Session 4074 BALANCING THE • Jing Yu, Northwestern	
January 10 Tackling Asset ECONOMIC, Pablo Durango-Cohen,	
10:15 AM- Management ENVIRONMENTAL, Northwestern	
12:00 PM ET Emerging Trends to AND SERVICE	
Engage, Enrich, and TRADE-OFFS IN	
Convention Center, Empower ROAD DESIGN: AN	
MODEL WITH	
SUBSTITUTION	
Wednesday,Poster Session 4084Modeling the• Hoseb Abkarian,	
January 10Advancing TravelDemand forNorthwestern	
3:45 PM- Forecasting Methods Ridesharing in a • Nadim Hamad, Northwester	n
5:30 PM ET and Practices Mixed-service • Hani Mahmassani,	
Autonomous Northwestern	
Convention Center, Vehicle Fleet with	
Hall A, A151 Parcel Delivery	
Service	
Thursday, JanuaryWorkshop 5007The Evolving• Amanda Stathopoulos,	
11 Hybrid Work, Landscape of Northwestern	
9:00 AM- Activity Patterns, Hybrid Work • Hani Mahmassani,	
12:00 PM ET and Travel Choices in Northwestern	
the Post-Pandemic • Divyakant Tahlyan,	
Convention Center, Era Northwestern	
145B	