Monday, January 10
8:00 AM-9:30 AM ET
Data for Decision Making Committee
Joseph Schofer, Northwestern University, presiding
Susan Martinovich, HNTB Corporation, presiding
Data and Information Technology (AJE70)
More Details

Monday, January 10
10:30 AM-12:00 PM ET
Lectern Session 1089
Innovative Research in Freight and Marine Systems Lightning Hybrid Session
Shannon McLeod, WSP, presiding
Lectern
Environment, Freight Transportation, Marine Transportation (AW010 AT020 AT045)
More Details

Monday, January 10
10:30 AM-12:00 PM ET
Resilience of Rail Intermodal Freight during the Covid-19 Pandemic
(TRBAM-22-01859)
Joseph Schofer, Northwestern University
Hani Mahmassani, Northwestern University
Max Ng, Northwestern University

Monday, January 10
10:30 AM-12:00 PM ET
Poster Session 1104
Poster Session: Emerging Research on Shared Vehicle Services
Jean Rueestman, Michigan Department of Transportation, presiding
Poster
Policy, Public Transportation, Research (about research) (AP020 AP020 AP020(3))
More Details

An agent-based simulation tool for ride-hail service design
(TRBAM-22-02026)
Kenan Zhang, Northwestern University
Archak Mittal, Ford Motor Company
Shadi Djavadian, Ford Motor Company
Richard Twumasi-Boakye, Ford Motor Company
Yu Nie, Northwestern University

Does Taxing TNC Trips Discourage Solo Riders and Increase the Demand for Ride Pooling? A Case Study of Chicago Using Interrupted Time Series and Bayesian Hierarchical Modeling
(TRBAM-22-03258)
Hoseb Abkarian, Northwestern University
Sharika Hegde, Northwestern University
Hani Mahmassani, Northwestern University
Monday, January 10
10:30 AM-12:00 PM ET
Poster Session 1109
Innovations in Freight Rail Transportation
Anthony Klaumann, HDR, presiding
Poster
Freight Transportation, Operations and Traffic Management, Rail
More Details

How Well did Rail and Intermodal Freight Respond to the COVID-19 Pandemic vs. the Great Recession? (TRBAM-22-00397)
Max Ng, Northwestern University
Joseph Schofer, Northwestern University
Hani Mahmassani, Northwestern University

Econometric Analysis of Pandemic Disruption and Recovery Trajectory in the Rail Freight Industry (TRBAM-22-01289)
Max Ng, Northwestern University
Hani Mahmassani, Northwestern University
Joseph Schofer, Northwestern University

Monday, January 10
4:00 PM-5:30 PM ET
Poster Session 1177
AR040
Advances in Understanding About Bicycle Safety, Modeling, and Behavior
Cong Chen, University of South Florida, presiding
Poster
Pedestrians and Bicyclists (ACH20)
More Details

Characterizing the Nature of the COVID-19 Bike Boom (TRBAM-22-02412)
Adrian Hernandez, Northwestern University
Meredith Raymer, Northwestern University
Ying Chen, Northwestern University

Monday, January 10
4:00 PM-5:30 PM ET
Emerging Methods in Travel Demand
Amanda Stathopoulos, Northwestern University, presiding
Poster
Planning and Forecasting (AEP50)
More Details

Emerging Methods Subcommittee, AEP50(1)
Amanda Stathopoulos, Northwestern University, presiding
Taha Hossein Rashidi, UNSW: University of New South Wales, presiding
7:30 PM-10:00 PM ET
Planning and Forecasting (AEP50 AEP50(1))
More Details
Tuesday, January 11
8:00 AM-9:30 AM ET
Poster Session 1216
Intelligent Transportation Systems 2022, Part 1 (Part 2, Session 1264)
Poster
Operations and Traffic Management (ACP15)
More Details

Amr Elfar, Bain & Company
Alireza Talebpour, University of Illinois at Urbana-Champaign
Hani Mahmassani, Northwestern University

Tuesday, January 11
10:30 AM-12:00 PM ET
Lectern Session 1249
Network Models in the Era of Autonomy and Connectivity
Yanfeng Ouyang, University of Illinois at Urbana-Champaign, presiding
Lectern | AICP Certification
Planning and Forecasting (AEP40)
More Details

Lightning Presentation: Autonomous Minibus Service with Semi-on-demand Routes in Grid Networks (P22-20529)
Max Ng, Northwestern University
Hani Mahmassani, Northwestern University

Tuesday, January 11
1:30 PM-3:00 PM ET
New Users of Shared Airspace Committee
Daniel Friedenzohn, Embry Riddle Aeronautical University, presiding
Aviation (AV095)
More Details

Factors Impacting Demand Consolidation in Urban Air Taxi Operation (TRBAM-22-02678)
Haleh Sadat Ale-Ahmad, Northwestern University
Hani Mahmassani, Northwestern University

Tuesday, January 11
1:30 PM-3:00 PM ET
Poster Session 1306
Behavior and Choices in Transportation Networks
Yanfeng Ouyang, University of Illinois at Urbana-Champaign, presiding
Poster
Planning and Forecasting (AEP40 AEP30 AEP30(2))
More Details

APPROXIMATE A PRIORI PATH FINDING FOR MULTIPLE RELIABILITY OBJECTIVES IN STOCHASTIC DYNAMIC
**NETWORKS WITH CORRELATIONS** (TRBAM-22-01800)
Monika Filipovska, University of Connecticut
Hani Mahmassani, Northwestern University

Tuesday, January 11
1:30 PM- 3:00 PM ET

**Poster Session 1307**

**Network Design Under Equilibrium**
Yanfeng Ouyang, University of Illinois at Urbana-Champaign, presiding

**Poster**
Planning and Forecasting (AEP40)

**More Details**

Eunhye Kim, Northwestern University
Hani Mahmassani, Northwestern University

**Poster Session 1308**

**Emerging Mobility Services in Transportation Networks**
Yanfeng Ouyang, University of Illinois at Urbana-Champaign, presiding

**Poster**
Planning and Forecasting, Public Transportation (AEP40)

**More Details**

**Modeling the Mixed-service Fleet Problem of Shared-use Autonomous Mobility Systems for On-Demand Ridesourcing and Carsharing with Reservations** (TRBAM-22-03220)
Hoseb Abkarian, Northwestern University
Hani Mahmassani, Northwestern University
Michael Hyland, University of California, Irvine

**Autonomous Minibus Service with Semi-on-demand Routes in Grid Networks** (TRBAM-22-04507)
Max Ng, Northwestern University
Hani Mahmassani, Northwestern University

**Poster Session 1341**

**The Length and Breadth of Statewide and National Transportation Data**
Penelope Weinberger, American Association of State Highway and Transportation Officials (AASHTO), presiding

**Poster**
Data and Information Technology (AED10)

**More Details**
Accelerating the Adoption of Disruptive Technologies: The Impact of COVID-19 on Intention to Use Self-Driving Vehicles (TRBAM-22-04210)
Maher Said, Northwestern University
Emma Zajdela, Northwestern University
Amanda Statthopoulos, Northwestern University

Airfield and Airspace Performance Committee
Yu Zhang, University of South Florida, presiding
Aviation, Operations and Traffic Management (AV060)

Tuesday, January 12
8:00 AM - 9:30 AM ET
ACRP Student Paper: Air Traffic Flow Models for Varying Airspace Structures and Heading Ranges (TRBAM-22-01374)
Christopher Cummings, Northwestern University
Hani Mahmassani, Northwestern University

Poster Session 1368
Sharing Is Caring: Recent Research on Bikeshare, E-Scooters, and Micromobility
Carl Sundstrom, New York City Department of Transportation, presiding
Pedestrians and Bicyclists (ACH20)

Wednesday, January 12
8:00 AM - 9:30 AM ET
How Many Are Too Many? Analyzing Dockless Bikesharing Systems with a Parsimonious Model (TRBAM-22-01935)
Hongyu Zheng, Northwestern University
Kenan Zhang, Northwestern University
Yu Nie, Northwestern University

Poster Session 1371
Traffic Flow Theory, Part 4: Intelligent Transportation Systems and Network Optimization (Part 1, Session 1093; Part 2, Session 1178; Part 3, Session 1337)
Vikash Gayah, Pennsylvania State University, University Park, presiding
Operations and Traffic Management (ACP50)

Wednesday, January 12
8:00 AM - 9:30 AM ET
A Game-Theoretic Approach to Ride-Hail Vehicle Routing (TRBAM-22-01312)
Kenan Zhang, Northwestern University
Archak Mittal, Ford Motor Company
Wednesday, January 12
8:00 AM-
9:30 AM ET
Poster Session 1374
**Impacts of the COVID-19 Pandemic on Activities and Travel**
Mahmudur Fatmi, The University of British Columbia, presiding

**Characterizing Ride-hailing Driver Attrition and Supply in the City of Chicago through the COVID-19 Pandemic** (TRBAM-22-03135)
Sharika Hegde, Northwestern University
Hoseb Abkarian, Northwestern University
Hani Mahmassani, Northwestern University

**Latent Transition Analysis of Consumer Spending Behavior and Adaptation Across Online and In-Person Channels Through the Pandemic** (TRBAM-22-04185)
Divyakant Tahlyan, Northwestern University
Maher Said, Northwestern University
Hani Mahmassani, Northwestern University
Amanda Stathopoulos, Northwestern University
Joan Walker, University of California, Berkeley
Susan Shaheen, University of California, Berkeley

Wednesday, January 12
8:00 AM-
9:30 AM ET
Poster Session 1387
**Simulation, Human Behavior, and Infrastructure for Evacuations**
Xianfeng Yang, University of Utah, presiding
Diana Herriman, FEMA, presiding

**Protection or Peril of Following the Crowd in a Pandemic-Concurrent Flood Evacuation** (TRBAM-22-02296)
Elisa Borowski, Northwestern University
Amanda Stathopoulos, Northwestern University

Wednesday, January 12
8:00 AM-
9:30 AM ET
Poster Session 1388
**Managing Your Transit Network**
Konstantinos Gkiotsalitis, University of Twente, presiding
Siew Hoon Lim, North Dakota State University, presiding
Bus Transit Automation: Conceptual Framework for Technology Deployment and System-Level Impacts (TRBAM-22-03043)
Adrian Hernandez, Northwestern University
Hani Mahmassani, Northwestern University

Global Overview of Recent Advances in Traffic Flow Theory
Ludovic Leclercq, Université Gustave Eiffel, presiding

Measuring the Impact of Air Traffic Flow Restrictions using 4-D System Fundamental Diagrams for Urban Air Mobility (TRBAM-22-03816)
Christopher Cummings, Northwestern University
Hani Mahmassani, Northwestern University

For Whom Did Telework Not Work During the Pandemic? Understanding the Factors Impacting Telework Satisfaction Using a Multiple Indicator Multiple Cause (MIMIC) Model (TRBAM-22-03111)
Divyakant Tahlyan, Northwestern University
Maher Said, Northwestern University
Hani Mahmassani, Northwestern University
Amanda Stathopoulos, Northwestern University
Joan Walker, University of California, Berkeley
Susan Shaheen, University of California, Berkeley

Transit, Accessibility, and Vulnerability During the COVID-19 Pandemic
10:30 AM-12:00 PM ET
Veronica Murphy, New Jersey Department of Transportation, presiding
Lectern | AICP Certification
Public Transportation, Society, Transportation, General (AME80)
More Details

Changes in Social Support Networks Across Physical and Virtual Spaces During the COVID-19 Pandemic: Exploring the Experiences of Youth and Marginalized Populations (TRBAM-22-03651)
Elisa Borowski, Northwestern University
Amanda Stathopoulos, Northwestern University

Wednesday, January 12
Lectern Session 1421
Data-Driven Infrastructure Investment Decision Making
Joseph Schofer, Northwestern University, presiding
Lectern | Spotlight Theme
Data and Information Technology, Spotlight Theme: Innovating an Equitable, Resilient, Sustainable, and Safe Transportation System (AJE70)
More Details

Workshop 1433
Virtual Activities, Travel Behavior, and Demand Management in a Post-Pandemic Era
Giovanni Circella, University of California, Davis, presiding
Ipek Sener, Texas A&M Transportation Institute, presiding
Md Sami Hasnine, Howard University, presiding
Khandker Nurul Habib, University of Toronto, presiding
Workshop | Spotlight Theme | AICP Certification
Planning and Forecasting, Spotlight Theme: Innovating an Equitable, Resilient, Sustainable, and Safe Transportation System (AEP35 AEP30 AEP60)
More Details

Panel Discussion: The COVID-19 Pandemic and the Future of Mobility
Chandra Bhat, University of Texas, Austin
Hani Mahmassani, Northwestern University
Yoram Shiftan, Technion Israel Institute of Technology
Shin-pei Tsay, Uber Technologies, Inc.
Lisa Snapp, U.S. Environmental Protection Agency (EPA)