

TRANSPORTATION RESEARCH BOARD
104th ANNUAL MEETING
 January 5-9, 2024 · Washington, D.C.



Center for Freight Transportation for Efficient & Resilient Supply Chain
PRESENTATION SCHEDULE

MONDAY, JANUARY 6

› **The Influence of Automation in Freight Logistics**

Lectern Session
Bo Zou, University of Illinois, Chicago
 8:00 AM - 9:45 AM
 Convention Center, 145A

› **Freight Transportation, Vehicles and Equipment**

Lectern Session
Bo Zou, University of Illinois, Chicago, Presiding
 8:00 AM - 9:45 AM
 Convention Center, Hall A

› **A Branch-and-Price Algorithm for the Location-Routing Problem with District-Delimited Demand**

Poster Session
Bo Zou, University of Illinois, Chicago
 10:15 AM - 12:00 PM
 Convention Center, Hall A

› **Assessment of Automated Guided Vehicle (AGV) Deployment on Container Dwell Times at Seaports and Landside Traffic Congestion**

Lectern Session
Shailesh Chandra, California State University, Long Beach
 10:15 AM - 12:00 PM
 Convention Center, 147B

› **Developing the Traffic Input for Mechanistic-Empirical Pavement Design: A Case Study in Tennessee**

Lectern Session
Lee Han, University of Tennessee, Knoxville
 1:30 PM - 3:15 PM
 Convention Center, 202A

› **Delivery Deserts: Mapping, Understanding, and Overcoming Service Challenges**

Lectern Session
Marcella Kaplan, University of Tennessee, Knoxville
 1:30 PM - 3:15 PM
 Convention Center, 146B

› **Modeling Headway in Heterogeneous and Mixed Traffic Flow: A Statistical Distribution Based on a General Exponential Function**

Poster Session
Yunlong Zhang, Texas A&M University
 6:00 PM - 7:30 PM
 Convention Center, Hall A

TUESDAY, JANUARY 7

› **Improving Truck Volume Estimation from Single Loop Detectors: A Method Integrating Quantile Regression with Light Gradient Boosting Machine**

Poster Session
Lee Han, University of Tennessee, Knoxville
 8:00 AM - 9:45 AM
 Convention Center, Hall A

› **Assessing the Effectiveness of Emergency Pull-offs in Reducing the Impact of Stopped Vehicles on Mainline Traffic**

Poster Session
Lee Han, University of Tennessee, Knoxville
 1:30 PM - 3:15 PM
 Convention Center, Hall A

› **A Deep Reinforcement Learning Framework for Lane-Changing Decision Model of Autonomous Vehicles during Unexpected Lane Blockages**

Poster Session
Yunlong Zhang, Texas A&M University
 6:00 PM - 7:30 PM
 Convention Center, Hall A

WEDNESDAY, JANUARY 8

› **Truck Platooning Coordination with Multiple Times Matching**

Poster Session
Bo Zou, University of Illinois, Chicago
 8:00 AM - 9:45 AM
 Convention Center, Hall A

› **An Iterative Algorithm to Impute Traffic Information over Nationwide Traffic Networks**

Poster Session
Lee Han, University of Tennessee, Knoxville
 8:00 AM - 9:45 AM
 Convention Center, Hall A

› **Study on Acceleration and Deceleration Lane Length for Three-lane Ramps at Interchange**

Poster Session
Yunlong Zhang, Texas A&M University
 8:00 AM - 9:45 AM
 Convention Center, Hall A

› **Administration and Management, Data and Information Technology, Education and Training, Operations and Traffic Management**

Lectern Session
Kevin Heaslip, University of Tennessee, Knoxville, presiding
 3:45 PM - 5:30 PM
 Convention Center, Hall 146A

