




UNIVERSITY OF CENTRAL FLORIDA
SMART AND SAFE TRANSPORTATION LAB
PAPERS ACCEPTED FOR TRB 2024
SEE YOU THERE!



	Papers to be presented	Research group	Paper number
1	Hasan T., Abdel-Aty M. (2024) Short-Term Safety Performance Functions by Random Parameters Negative Binomial-Lindley Model for Part-Time Shoulder Use.	Mohamed Abdel-Aty	TRBAM-24-00033
2	Hasan T., Abdel-Aty M. (2024) Safety Considerations for Setting Variable Speed Limits on Freeways.	Mohamed Abdel-Aty	TRBAM-24-02247
3	Anwari N., Bhowmik T., Abdel-Aty M., Eluru N. (2024) Analysis of Lag Time of Pedestrian Fatalities: A Copula Approach.	Mohamed Abdel-Aty/ Naveen Eluru	TRBAM-24-02981
4	Ahsan J., Abdel-Aty M., Anwari N. (2024) A Detailed Study on the Determinants of Pedestrians' Surrogate Safety Measures at Signalized Mid-block Crossings.	Mohamed Abdel-Aty	TRBAM-24-00927
5	Ahsan J., Abdel-Aty M., Anwari N., Barbour N. (2024) Evaluating Drivers' Braking Behavior at Mid-block Pedestrian Crosswalks using Video Data and a Mixed Logit Model.	Mohamed Abdel-Aty/ Natalia Barbour	TRBAM-24-00109

6	Zaki M., Nour M., Abdel-Aty M. (2024) Towards Smart Work Zones: A Connectivity Approach for Efficient Traffic Data Dissemination.	Mohamed Abdel-Aty	TRBAM-24- 03586
7	Barbour N., Abdel-Aty M., Yang S., Lee. J. (2024) Temporal Changes in the Crash Trends in Florida During the COVID-19 Pandemic: The Case of Pedestrian Related Crashes at Intersections.	Mohamed Abdel-Aty/ Natalia Barbour	TRBAM-24-04322
8	Barbour N., Abdel-Aty M., Mannering F. (2024) Retaining the Transportation Benefits of COVID-19 Induced Work from Home: Understanding the Role of Worker Productivity.	Mohamed Abdel-Aty/ Natalia Barbour	TRBAM-24-00038
9	Islam M. R., Abdel-Aty M., Wang D., Islam Z. (2024) Spatial Ensemble Distillation Learning for Large-scale Real-time Crash Prediction.	Mohamed Abdel-Aty	TRBAM-24-01380
10	Jin Q., Abdel-Aty M., Ugan J., Islam Z., Zheng O. (2024) Identifying the Threshold Discrepancy of Rear-End Conflicts under Clear and Rainy Weather Conditions Using Trajectory Data.	Mohamed Abdel-Aty	TRBAM-24-01074
11	Wang Z., Zheng O., Li L., Abdel-Aty M., Cruz-Neira C., Islam Z. (2024) Towards Next Generation of Pedestrian and Connected Vehicle in-the-loop Research: A Digital Twin Co-Simulation Framework.	Mohamed Abdel-Aty	TRBAM-24-04948
12	Yuan R., Abdel-Aty M., Xiang Q., Wang Z., Zheng O. (2024) A Novel Temporal Multi-Gate Mixture-of-Experts Approach for Vehicle Trajectory and Driving Intention Prediction.	Mohamed Abdel-Aty	TRBAM-24-01090
13	Wang Z., Abdel-Aty M., Zheng O., Ding S. (2024) Model Calibration for Microscopic Traffic Simulation Using Drone-Based Vehicle Trajectory Data.	Mohamed Abdel-Aty	TRBAM-24-0080

14	Faden A., Abdel-Aty M., Hasan T., Rim H. (2024) Developing Temporal Safety Performance Functions of Ramp Metering Operated.	Mohamed Abdel-Aty	TRBAM-24-05917
15	Park J., Lee S., Abdel-Aty M. (2024) Hazards-based Duration Time Model with Priorities Considering Unobserved Heterogeneity Using Real-time Traffic and Weather Big Data.	Mohamed Abdel-Aty	TRBAM-24-03068
16	Wang Z., Huang H., Abdel-Aty M., Tang J. (2024) A deep reinforcement learning-based approach for autonomous lane-changing velocity control in mixed flow of vehicle group level.	Mohamed Abdel-Aty	TRBAM-24-01120
17	Wang C., Abdel-Aty M., Easa S., Cheng J., Jamal A. (2024) Evaluating Helmet-Wearing of Single-Vehicle Overspeeding Motorcycle Crashes: Insights from Temporal Instability in Parsimonious Pooled Framework.	Mohamed Abdel-Aty	TRBAM-24-00169
28	Cui P., Yang M., Huo Z., Yang X., Abdel-Aty M. (2024) Modelling Urban Traffic Crash Causation Considering Spatio-Temporal Instability in Big Cities.	Mohamed Abdel-Aty	TRBAM-24-01795
19	Wang L., Zhu T., Feng Y., Ma W., Abdel-Aty M. (2024) Vehicle-group-based Crash Risk Formation and Propagation Analysis for Expressways.	Mohamed Abdel-Aty	TRBAM-24-01982
20	Abdel-Aty M., Ugan J., Islam Z. (2024) Unraveling the Impact of Visual Environments on Speeding Tendencies Using a Large Image Dataset.	Mohamed Abdel-Aty	TRBAM-24- 00833
21	Park N., Park S., Oh D., Lee S., Park J., Yang S. (2024) Simulation and Real-World Study for Assessment Speed-Reduction Pavement Marking's Effects on Urban Roads.	Mohamed Abdel-Aty	TRBAM-24-01804

22	Zheng O., Abdel-Aty M., Wang D., Wang C., Ding S. (2024) TrafficSafetyGPT: Tuning a Pre-trained Large Language Model to a Domain-Specific Expert in Transportation Safety.	Mohamed Abdel-Aty	TRBAM-24-01497
23	Hou M., Wang C., Shen J., Easa S., Cheng J. (2024) Safety Analysis of the Pedestrian Street-Crossing Behavior Distracted by Mobile Phone Usage: Evidence from Field Observation in Nanjing.	Mohamed Abdel-Aty	TRBAM-24-03591
24	Chen F., Zhu W., Li C., Wang C. (2024) Study on Driving fatigue in Plateau Based on Steering Wheel Indicator.	Mohamed Abdel-Aty	TRBAM-24-01616



UNIVERSITY OF CENTRAL FLORIDA
SMART AND SAFE TRANSPORTATION LAB
 PAPERS ACCEPTED FOR TRB 2024
 SEE YOU THERE!

