

Fifth Annual CAMMSE Research Symposium - FINAL PROGRAM

Day 1: Thursday, November 10 (8:00AM-3:20PM)

8:00-8:15AM **Welcome** (Dr. Wei Fan, Director of CAMMSE)

8:15-9:00AM **Keynote Presentation No. 1** (Moderator: Dr. Wei Fan)

Title: **“An Update on Alternative Intersections”**

Speaker: **Dr. Joseph Hummer**, North Carolina DOT

9:00-10:20AM **Technical Session #1: Advanced Models for Transportation Planning and Operations**

Moderator: Dr. Randy Machemehl, University of Texas at Austin

“Estimation of Pedestrian Compliance at Signalized Intersections Considering Demographic and Geographic Factors”

Speaker: John Ivan, Ph.D., P.E., University of Connecticut

“A Simulation Study on the Traffic Delay and Fuel Consumption of Connected and Autonomous Vehicles in Superstreet with Platooning, Signal Optimization, and Trajectory Planning”

Speaker: Shaojie Liu, Ph.D., Zhengzhou University of Aeronautics

“Travel Preference Survey and Mode Choice Model Development for the University of Texas at Austin”

Speaker: Randy Machemehl, Ph.D., P.E., University of Texas at Austin

“An Enhanced Understanding of Resilience Assessment Using Points-of-interest (POI) Visit Dataset under Disaster”

Speaker: Jin Zhu, Ph.D., University of Connecticut

10:20-10:30AM **Break**

10:30-11:50AM **Technical Session #2: Transforming Transportation with Machine Learning**

Moderator: Dr. Christian Claudel, University of Texas at Austin

“Performance of State-Shared Multi-Agent Deep Reinforcement Learning Controlled Signal Corridor with Platooning-Based CAVs”

Speaker: Li Song, Ph.D., Wuhan University of Technology

“Prediction of Traffic Mobility Based on Historical Data and Machine Learning Approaches”

Speaker: Xianming Shi, Ph.D., P.E, Washington State University

“HAR-GCNN: Deep Graph CNNs for Human Activity Recognition from Highly Unlabeled Mobile Sensor Data”

Speaker: Christian Claudel, Ph.D., University of Texas at Austin

“Combining Emerging Hotspots Analysis with XGBoost for Modeling Pedestrian Injuries in Pedestrian-Vehicle Crashes: A Case Study of North Carolina”

Speaker: Yang Li, Ph.D., University of Wisconsin-Milwaukee

11:50AM-1:00PM

Lunch

1:00-1:45PM

Keynote Presentation No. 2 (Moderator: Dr. Wei Fan)

Title: **“Going My Way? What Role Do the Built Environment and Incentives Play in Supporting Pooling with Shared Mobility? A Photovoice Study in the San Francisco Bay Area”**

Speaker: **Dr. Susan Shaheen**, University of California, Berkeley

1:45-3:05PM

Technical Session #3: Public Transit and Emerging Mobility Services

Moderator: Dr. Yi Qi, Texas Southern University

“COVID-19 Effects on Bike Share Usage and Ridership in Houston”

Speaker: Mehdi Azimi, Ph.D., P.E., Texas Southern University

“Characteristics of Pooled Trips Offered by Ride-sourcing Services in Chicago”

Speaker: Carol Atkinson-Palombo, Ph.D., University of Connecticut

“Impacts of COVID-19 on Public Transit Ridership”

Speaker: Yi Qi, Ph.D., Texas Southern University

“A Research Perspective of Integrating Equity into Public Transportation Planning”

Speaker: Nicholas Lownes, Ph.D., P.E., University of Connecticut

3:05-3:20PM

Closing Day 1 (*Dr. Wei Fan, CAMMSE Director*)

Notes: - End of Day 1 marks the end of the keynotes and faculty presentations component of the CAMMSE Research Symposium. Student presentations will be offered in Day 2.

Day 2: Friday, November 11 (8:00AM-12:15PM)

8:00-8:05AM

Welcome (Dr. Wei Fan, Director of CAMMSE)

8:05-9:35AM

Student Presentations: Session #1

*Moderator: Mr. Chengying Hua, University of North Carolina at Charlotte
(See Student Presentation section in Page 26 of this booklet for more information on presentation titles. For the abstracts see pages 27 to 31.).*

9:35-9:50AM

Break

9:50-11:40AM

Student Presentations: Session #2

*Moderator: Mr. Tianjia Yang, University of North Carolina at Charlotte
(See Student Presentation section in Page 26 of this booklet for more information on presentation titles. For the abstracts see pages 32 to 37.).*

11:40 -12:00PM

Break

12:00-12:15PM

Student Awards Ceremony

Notes: - Announcement of Student Presentation Awards (Top 6) will be made.

12:15PM

Closing Announcements (*Dr. Wei Fan, CAMMSE Director*)