

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

[Recorded Video for Welcome Remarks, Keynote Presentation #1 and Technical Session #1](#)

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

Recorded Video for Technical Session #2

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

Recorded Video for Keynote Presentation #2 and Technical Session #3

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*)

[Recorded Video for Student Presentations](#)