Fourth Annual CAMMSE Research Symposium - FINAL PROGRAM

Day 1: Thursday, November 4 (8:00AM-5:00PM)

8:00-8:15AM **Welcome and Opening Remarks** (Moderator: Dr. Wei Fan)
8:00-8:10AM **Dr. Robert S. Keynton**, Dean, College of Engineering, UNCC
8:10-8:15AM Dr. Wei Fan, CAMMSE Director

8:15-8:55AM **Keynote Presentation No. 1** (Moderator: Dr. Wei Fan)
Title: **"Near Term Steps to Accelerate Deep Decarbonization of United States Transportation"**
Speaker: **Dr. Chris Hendrickson**, Carnegie Mellon University

Recorded Video for Opening Remarks and Keynote Presentation #1

9:00-10:20AM **Technical Session #1:** *Emerging Mobility Services, Planning and Operations*
Moderator: Dr. John Ivan, University of Connecticut

"Developing Smart Traffic Signal Control"
Speaker: Randy Machemehl, Ph.D., P.E., 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

"An Innovative Signal Timing Strategy for Implementing Contraflow Left-Turn Lanes at Signalized Intersections with Split Phasing"
Speaker: Dr. Yi Qi, Texas Southern University

"Exploring the Impacts of Transportation System on Human Behaviors during Disasters using Mobility Data"
Speaker: Jin Zhu, Ph.D., University of Connecticut

Recorded Video for Technical Session #1

10:30-11:50AM **Technical Session #2:** *Improving Multimodal Mobility and Equity Using Data Analytics*
Moderator: Dr. Yi Qi, Texas Southern University

"Captive Drivers & Choice Riders: The Overlooked Constituencies in Transportation Planning"
Speaker: Carol Atkinson-Palombo, Ph.D., University of Connecticut

"Modeling and Evaluating Public Transit Equity and Accessibility by Integrating General Transit Feed Specification Data"
Speaker: Wei (David) Fan, Ph.D., P.E., University of North Carolina at Charlotte

"Using Computational Biology to Mitigate Path Overlap in Transit Assignment"
Speaker: Timothy James Becker, Ph.D., University of Hartford

"Analysis of Intermodal Vessel-to-Rail Connectivity"

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

Recorded Video for Technical Session #2

1:00-1:40PM **Keynote Presentation No. 2** (Moderator: Dr. Wei Fan)
Title: **"Forecasting and Estimating Transportation Metrics in the COVID-19 and CAV Era"**
Speaker: **Dr. Laurence Rilett**, Auburn University

1:45-3:20PM **Invited Speakers' Session:** *Connected and Automated Vehicles*
Moderator: Dr. Wei Fan, University of North Carolina at Charlotte

"Texas Connected Freight Corridors"
Speaker: Jianming Ma, Ph.D., P.E., Texas Department of Transportation

"CAV Modeling Rising Up with Digital Twin: Transforming the Interconnection between Open data, Researchers and City Planners"
Speaker: Xuesong Zhou, Ph.D., Arizona State University

"System Optimal Vehicle Platooning Control for Eco-driving at Signalized intersection Built upon Hybrid MPC System, Online Learning and Distributed Optimization"
Speaker: Lili Du, Ph.D., University of Florida

"Cooperative Platooning along with Human Driven Vehicles"
Speaker: B. Brian Park, Ph.D., University of Virginia

Recorded Video for Keynote Presentation #2 and Invited Speakers' Session on CAVs

3:30-4:50PM **Technical Session #3:** *Connected and Autonomous Vehicle and Machine Learning Applications*
Moderator: Dr. Randy Machemehl, University of Texas at Austin

"Two-stage Robust Facility Location Problem with Drones"
Speaker: Stephen Boyles, Ph.D., University of Texas at Austin

"Effect of Multimodal Connected Vehicle App on Transit Stop Catchment Area"
Speaker: Xianming Shi, Ph.D., P.E, Washington State University

"Skeleton-Graph: Long-Term 3D Motion Prediction from 2D Observations Using Deep Spatio-Temporal Graph CNNs"
Speaker: Claudel Christian, Ph.D., University of Texas at Austin

"Effect of Connected and Autonomous Vehicles on Supply Chain Performance"
Speaker: Ji Yun Lee, Ph.D., Washington State University

4:50-5:00PM **Recap of Day 1** (*Dr. Wei Fan, CAMMSE Director*)

Recorded Video for Technical Session #3

Day 2: Friday, November 5 (8:00AM-12:00PM)

8:00-8:05AM   **Opening Remarks** (*Dr. Wei Fan, CAMMSE Director*)

8:05-9:35AM   **Student Lightning Presentations: Session #1**
                     Moderator: Mr. Li Song, University of North Carolina at Charlotte

9:45-11:15AM   **Student Lightning Presentations: Session #2**
                     Moderator: Mr. Shaojie Liu, University of North Carolina at Charlotte

11:30-11:50AM   **Student Awards Ceremony**
Notes: -   Announcement of Student Lightning Presentation Awards (Top 11) was made.

11:50-12:00PM   **Closing Remarks** (*Dr. Wei Fan, CAMMSE Director*)

Recorded Video for Student Lightning Presentations