



THE 25TH COTA TRB WINTER SYMPOSIUM

SALON 17, MARRIOTT MARQUIS
901 MASSACHUSETTS AVE NW, WASHINGTON DC 20001

ZOOM MEETING INFORMATION:

MORNING SESSION: MEETING ID 883 0877 6393, PASSCODE 000550 | [CLICK TO JOIN](#)
AFTERNOON SESSION: MEETING ID 882 0393 5771, PASSCODE 049278 | [CLICK TO JOIN](#)

SUNDAY, JANUARY 8, 2023 (EASTERN TIME)

08:30 – 17:30 COTA SYMPOSIUM AND MEMBERSHIP REGISTRATION

09:00 – 09:10 OPENING REMARK

Moderator: Dr. Lijun Sun, COTA Outreach and Membership Officer, McGill University

Opening Remark: Dr. Jianming Ma, COTA President, Texas Department of Transportation

Support by: Xudong Wang, McGill University

09:10 – 10:10 SESSION 1: EMERGING TRANSPORTATION TECHNOLOGIES

Moderator: Dr. Lijun Sun, COTA Outreach and Membership Officer, McGill University

Support by: Xudong Wang, McGill University

1. Impacts of Automated Driving Features on Future Traffic
Dr. Xiaowei (Tom) Shi, Research Fellow, University of Michigan
2. Network Traffic State Estimation Using Physics-Informed Neural Networks
Dr. Rui Ma, Assistant Professor, University of Alabama-Huntsville
3. A generic stochastic hybrid car following model based on approximate Bayesian computation
Dr. Yang Zhou, Assistant Professor, Texas A&M University

10:10 – 10:30 MORNING BREAK

10:30 – 11:30 SESSION 2: SUSTAINABLE TRANSPORTATION: MODELING AND IMPLEMENTATION

Moderator: Dr. Cong Chen, COTA Communication Officer, University of South Florida

Support by: Zhanhong Cheng, McGill University

1. Tailored Priority Allocation in the Bottleneck Model with General User Heterogeneity
Dr. Zhenyu Yang, Postdoctoral Research, EPFL
2. Co-optimization of Charging Scheduling and Platooning for Long-haul Electric Freight Vehicles
Dr. Zhaomiao Guo, Assistant Professor, University of Central Florida
3. Are First Responders Prepared for Electrification and Automation of Highway Transportation? A National Survey
Dr. Jun Liu, Assistant Professor, University of Alabama

11:30 – 13:00 LUNCH BREAK

13:00 – 14:00 SESSION 3: ADVANCING EQUITY IN TRANSPORTATION

Moderator: Dr. Hanyi Yang, Postdoctoral Fellow, University of Hawaii at Manoa

Support by: Yiwei Wang, University of Hawaii at Manoa

1. Equity in New Mobility Services: The Case of Mobility-on-demand Transit and Shared Micromobility
Dr. Xiang Yan, Assistant Professor, University of Florida
2. A Branch-cut-and-price Algorithm for a Dial-A-Ride Problem with Minimum Disease-Transmission Risk
Dr. Xinwu Qian, Assistant Professor, University of Alabama
3. Impacts of On-Demand Transit on Ridership with Zonal Effects
Dr. Yili Tang, Assistant Professor, University of Regina



14:00 – 14:10 AFTERNOON BREAK 1

14:10 – 14:30 COTA-TRB PARTNERSHIP: HOW TO GET MORE ACTIVELY INVOLVED AT TRB

Moderator: Dr. Wei Fan, COTA BOD General Secretary, University of North Carolina at Charlotte
Support by: Dan Zhu, National University of Singapore

1. **Christos S. Xenophontos**, Co-Chair of the International Coordinating Council, TRB; Assistant Director of Rhode Island DOT
2. **William Anderson**, Senior Program Officer, TRB

14:30 – 15:30 COTA DISSERTATION AWARD CEREMONY

Moderator: Dr. Yang Liu, COTA Academic Affairs Co-chair, National University of Singapore
Support by: Dr. Junfeng Jiao, COTA Academic Affairs Co-chair, UT-Austin; Dan Zhu, National University of Singapore

1. Announcement of the dissertation award winners
2. Oral presentations by the winners

15:30 – 15:50 AFTERNOON BREAK 2

15:50 – 17:20 SESSION 4: PANEL DISCUSSION: CAREER AND LEADERSHIP DEVELOPMENT IN TRANSPORTATION

Moderator: Jason Wang, Appalachian Regional Commission
Support by: Shuyi Yin, COTA Student Affairs Chair, University of Washington

1. **Huiwei Shen**, Chief Planner, Florida Department of Transportation
2. **Zhongren Wang**, Chief, Office of Mobility Programs, Caltrans
3. **Connie Jing Li**, President, TranSmart Technologies, LLC
4. **Henry Liu**, Professor and Director of M-City, University of Michigan

17:20 – 17:30 CLOSING REMARK

Moderator: Dr. Cong Chen, COTA Communication Officer, University of South Florida
Closing Remark: Dr. Jianming Ma, COTA President, Texas Department of Transportation
Support by: Xudong Wang, McGill University

SYMPOSIUM CHAIR

❖ Dr. Jianming Ma, TxDOT

ORGANIZING COMMITTEE CHAIR

❖ Dr. Lijun Sun, McGill University
❖ Dr. Cong Chen, University of South Florida

ACADEMIC COMMITTEE CHAIR

❖ Dr. Junfeng Jiao, UT-Austin
❖ Dr. Yang Liu, National University of Singapore

STEERING COMMITTEE

❖ Dr. Xiaokun Wang, RPI
❖ Dr. Shanjiang Zhu, GMU
❖ Dr. Guohui Zhang, UH
❖ Dr. Jianwei Wang, PSI
❖ Dr. Wei Fan, UNCC
❖ Dr. Haizhong Wang, OSU
❖ Mr. Shuyi Yin, UW