



THE COTA 21ST ANNUAL WINTER SYMPOSIUM

CHINATOWN (M3), MARRIOTT MARQUIS
WASHINGTON DC, SUNDAY, JANUARY 7, 2018

08:30 – 09:00 NETWORKING BREAKFAST

08:30 – 17:00 MEMBER REGISTRATION

09:00 – 09:10 OPENING REMARK

Dr. Lei Zhang, COTA President Elect, University of Maryland

09:10 – 10:40 SESSION I: TRANSPORTATION DATA ANALYTICS

Moderator: Dr. Guohui Zhang, University of Hawai'i at Manoa

- 1. Data Analytics Approach to Identifying and Ranking Freeway Bottlenecks: A Case Study in Charlotte, North Carolina**
Dr. Wei (David) Fan, University of North Carolina at Charlotte
- 2. Big Data Approach of Crash Prediction**
Dr. Wei Zhang, Federal Highway Administration
- 3. Improve the Level of Service of Free-Floating Bike Sharing**
Dr. Yu Zhang, University of South Florida
- 4. Optimizing Traffic Signal Control Using Vehicle Trajectory Data**
Dr. Jianfeng Zheng, Didi Chuxing

10:40 – 10:55 MORNING BREAK

10:55 – 12:25 SESSION II: CHINA TRANSPORTATION UPDATES

Moderator: Dr. Jianming Ma, Texas Department of Transportation

- 1. Belt and Road International Transport Alliance (BRITA) and WTC 2018 Introduction**
Mr. Wenjie Liu, Vice President and Secretary General, China Highway and Transportation Society (CHTS)
Ms. Nina Guan, Deputy Director, International Cooperation Department, CHTS
- 2. Transportation Big Data System and Security Center Introduction**
Dr. Bing Wu / Dr. Jianming Ling, Dean, College of Transportation Engineering, Tongji University
- 3. Ultra-Large Scale Transportation System Estimation and Optimization: Opportunities and Challenges in Beijing**
Dr. Xuesong Zhou, Chief Scientist, Beijing Transport Institute
- 4. Data Driven Customized Bus Route Design and Operation Optimization**
Dr. Xiaolei Ma, Beihang University

12:25 – 13:25 LUNCH BREAK



13:25 – 15:15 SESSION III: CONNECTED AND AUTOMATED VEHICLES

Moderator: Dr. Zhen (Sean) Qian, Carnegie Mellon University
Dr. Xiaopeng (Shawn) Li, University of South Florida

1. **How Small Can Headways Be in Platoons of Connected Autonomous Vehicles?**
Dr. Yingyan Lou, Arizona State University
2. **Similarity Analysis for Activity-Travel Patterns using GPS Data from Michigan Connected Vehicle Test Bed**
Dr. Xuan (Sharon) Di, Columbia University
3. **Modeling Mobility and Energy Benefits of Automated Mobility Districts**
Dr. Lei Zhu, National Renewable Energy Laboratory
4. **Traffic Flow Characteristics with Cooperative Adaptive Cruise Control: A Microscopic Simulation Study**
Dr. Yibing Wang, Zhejiang University
5. **Development of An Integrated Transportation System of Connected and Automated Vehicles and Highways**
Dr. Bin Ran, The University of Wisconsin–Madison

15:15 – 15:30 AFTERNOON BREAK

15:30 – 16:10 COTA DISSERTATION AWARD CEREMONY

Host: Dr. Cara Wang, Rensselaer Polytechnic Institute

1. Best Dissertation Award Introduction
2. Best Dissertation Award Finalists Recognition
3. Best Dissertation Award Winner Announcement
4. Best Dissertation Award Winner Presentation
5. Closing Remarks

16:10 – 17:25 SESSION IV: PANEL DISCUSSION: CAREER DEVELOPMENT FOR YOUNG PROFESSIONALS

Moderator: Dr. Haizhong Wang, Oregon State University
Dr. Jianyang (Jay) Zheng, Maryland Department of Transportation

Panelists:

- Dr. Xiangmo Zhao, Vice President, Chang'an University
Dr. Pan Liu, Dean, School of Transportation, Southeast University
Dr. Wanjing Ma, Associate Dean, College of Transportation Engineering, Tongji University
Dr. Yunlong Zhang, Assistant Department Head, Zachry Department of Civil Engineering, Texas A&M University
Dr. Zhonghua Wei, Deputy Director of the Academic Affairs Office, Associate Dean of Beijing Intellectual Property Institute, Associate Provost of the Tongzhou Campus Management Center, Beijing University of Technology

17:25 – 17:30 CLOSING REMARK

Dr. Yu Zhang, COTA President, University of South Florida

SYMPOSIUM CHAIR

❖ Dr. Yu Zhang

ORGANIZING COMMITTEE CHAIR

❖ Dr. Jianming Ma
❖ Dr. Guohui Zhang

ACADEMIC COMMITTEE CHAIR

❖ Dr. Lei Zhang
❖ Dr. Heng Wei
❖ Dr. Yafeng Yin

STEERING COMMITTEE

❖ Dr. Yin Hai Wang
❖ Dr. Shanjiang Zhu
❖ Dr. Xiaokun (Cara) Wang
❖ Dr. Zhen (Sean) Qian
❖ Dr. Haizhong Wang
❖ Mr. Ruiming Ke
❖ Mr. Ken (Qingyan) Yang