



# Call for Presenters

The 20<sup>th</sup> COTA Annual Winter Symposium, Washington, D.C., January 8, 2017, Sunday

## BIG DATA AND SUSTAINABLE MOBILITY

### INTRODUCTION

By the end of 2015, the worldwide population reached 7.2 billion, heading to hit 100 million vehicles by 2020. Despite decades of tremendous efforts on research and practices, congestion, emissions and energy use continue soaring as population and economy grow, letting alone escalating threats of climate change to infrastructure systems. These problems will become worse as adding capacity becomes increasingly difficult due to land and fiscal constraints.

To address these challenges, innovative tools and forward-looking strategies are required to ensure the sustainability, livability and resiliency of the multi-modal transportation systems. Among all the emerging strategies, Big Data is one of the most exciting concepts. For example, recent exploration of mobile phones, smart transit cards, and parking data has greatly advanced our understanding of travel demand in a multi-modal context. Other solutions to transportation systems include climate change adaptation, connected vehicles, vehicle-to-infrastructure systems, autonomous vehicles, and car/ride sharing.

The 20th COTA/WCTA Annual Symposium will discuss critical issues in technology deployment, research and education that promote a safe, sustainable, efficient, and equitable transportation system through technologies and big data. The Symposium is aimed to providing a forum for international transportation professionals to share their research results, project experiences, and lessons learned. Researchers, educators, practitioners, government officials are encouraged to participate in the Symposium.

### SCOPE AND TOPICS

The symposium organizers are committed to bringing a high quality program to the symposium attendees. Presentation abstracts on any aspects of transportation research, education, and technology are eligible, and we particularly encourage abstracts that address issues in response to transportation data. We also welcome session proposals from interested individuals or organizations. Examples include paper sessions, international exchanges, industry forum, and expert panels.

Priority topics include, but are not limited to:

- Emerging Technologies
- Smarter City Initiatives
- Big Data Applications
- Connected vehicles
- Autonomous vehicles
- Sharing mobility
- Land use & transportation planning
- Inter-regional transportation
- Freight transportation and logistics
- Pricing and congestion management
- Multimodal transportation
- Intelligent transportation systems
- Traffic operations and control
- Public transportation
- Non-motorized transportation
- Transportation safety
- Emergency response
- Energy and environment

### ABSTRACT SUBMISSION

Presentation abstracts are limited to one page and must include title and speaker information (name, affiliation, mailing address, email, phone, and fax). Session proposals should be limited to two pages including session themes and speakers. Abstracts and proposals should be written in English.

**Deadline: 5 pm, US Eastern Time  
December 16, 2016, Friday**

Direct submissions and questions to:  
[COTA.WinterSymposium@gmail.com](mailto:COTA.WinterSymposium@gmail.com)

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**Companies and organizations interested in sponsoring the symposium and/or exhibition opportunities should email the Symposium organizers at [COTA.WinterSymposium@gmail.com](mailto:COTA.WinterSymposium@gmail.com).**