



### Volume 18, No. 1



## 18th COTA Annual Symposium on TRANSPORTATION SYSTEM EMPOWERED BY BIG DATA

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2015 COTA Winter Symposium, i.e., the 18th COTA Annual Symposium on Transportation in the Context of Rapid Urbanization was successfully held on January 11, 2015, in conjunction with the 2015 TRB Annual Conference in Marriot Marquis in Washington DC.

Five speakers from China and the U.S. presented their most up-to-date research in various transportation areas, including transportation planning, transportation management and operations, traffic safety, and so on. The symposium organization and steering committees put in great efforts in soliciting these highly recognized speakers. Dr. Shanjiang Zhu organized and chaired the symposium. Dr. Yaojan Wu, Dr. Henry Liu, Dr. Tianjia Tang, and Dr. Haizhong Wang moderated these sessions.

### Organization

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Yafeng Yin

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Yi Liu

#### COTA Homepage:

<http://www.cota-home.org>  
<http://nacota.org> (temporal site accessible in China)

#### Editors:

Xiaokun (Cara) Wang  
(wangx18@rpi.edu)



Opening Remarks



Symposium Site

# The 18th COTA Annual Symposium at TRB 2015

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January 11, 2015  
8:00 AM – 5:00 PM

Chinatown (M3),  
Marriott Marquis  
Washington, DC

## SYMPOSIUM CHAIR

Dr. Yafeng Yin

## ORGANIZING COMMITTEE

Dr. Shanjiang Zhu, (Chair)

Dr. Yin Hai Wang

Dr. Guohui Zhang

Dr. Yao-Jan Wu

Dr. Zhen Qian

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Dr. Yu Zhang

Dr. Heng Wei

Dr. Jianming Ma

Dr. Xiaokun (Cara) Wang

Ms. Yi Liu

Mr. Ken (Qingyan) Yang

Dr. Henry Liu



The speakers and their presentations are:

- Yuanchang Deng, Sun Yat-sen University, *Open Data Systems in Smart Cities: the OpenITS Project*
- Jia Hao Wu, W & S Solutions/Wu & Song Associates (Shanghai)/Shanghai Maritime University, *China-US Joint ITS/Adaptive Traffic Control Feasibility Study and Pilot Project in Guangzhou: Practical Experience and Positive Results with Centracs ATMS and ASC/3 Controllers*
- Tsungyi Lee, Lihung Luk Cheng, and Wenya Yeh, Citilabs, *Application of Macro- and Meso- demand Model in Taiwan National Freeway and Expressway System*
- Peter Chen, Santa Clara Valley Transportation Authority, *Management and Integration of Data and Travel Demand Modeling at the Santa Clara County Congestion Management Agency*
- Cherry Xiong, T. Y. Lin International, *Transportation Planning in Architectural Design*

Dr. Yuanchang Deng



Dr. Lihung Luk Cheng



Dr. Peter Chen



Dr. Cherry Xiong





*Panel  
Discussion on  
“Connected  
Vehicles  
Research and*

The 18th  
COTA Annual  
Symposium

Presentation  
files available at

[www.cota-home.org](http://www.cota-home.org)

[nacota.org](http://nacota.org)

The 18th COTA Annual Symposium features the panel discussion on “Connected Vehicles Research and Applications”

Panelists include

- Larry Head, University of Arizona



- Brian Park, University of Virginia



- Henry Liu, University of Michigan



***Panel  
Discussion on  
“Application of  
Cellular Data in  
Transportation”***

The 18th COTA Annual Symposium also features the panel discussion on “Application of Cellular Data in Transportation”.

Panelists include:

- Tianjia Tang, FHWA
- Mena Lockwood, VDOT
- Lei Zhang, University of Maryland
- Zhanbo Sun, Western Michigan University
- Weifeng Li, Tongji University

The symposium concludes with a panel discussion on “Career Development for Young Professionals”.

Panelists include:

- Xuesong Wang, Tongji University
- Xuedong Yan, Beijing Jiaotong University
- Xiaoming Huang, Southeast University
- Guohui Zhang, University of New Mexico
- Helai Huang, Central South University
- Jianming Ma, Texas Department of Transportation

***Panel  
Discussion on  
“Career  
Development for  
Young  
Professionals”***



Session IV, Panelists (Dr. Xuedong Yan, Dr. Xuesong Wang, Dr. Helai Huang, Dr. Jianming Ma, Dr. Xiaobo Liu, Dr. Guohui Zhang)

## *COTA Reception at TRB 2015*

6:00-10:00PM

Jan 13, 2015

Tony Cheng's  
Seafood Restaurant  
Washington, DC

2007

## COTA Reception at 2015 TRB

COTA hosted its annual reception again during the 2015 TRB. This year more than 300 transportation professionals and students attended the event. The reception provided a great venue for Chinese transportation professionals across the world to meet and socialize.





## ORGANIZERS

Chinese Overseas

Transportation

Association

(COTA)

Beijing Jiaotong

University

(BJTU)

主办单位

海外华人交通协会

(COTA)

北京交通大学

(BJTU)



## 第十五届“COTA”国际交通科技年会

The 15th COTA International Conference of Transportation Professionals

高效、安全和绿色综合交通

Efficient, Safe, and Green Multimodal Transportation

The 15th COTA International Conference of Transportation Professionals (CICTP2015) will be held during July 25-27, 2015, in Beijing, China, jointly organized by Beijing Jiaotong University (BJTU) and Chinese Overseas Transportation Association (COTA). The conference proceedings will be published by American Society of Civil Engineers (ASCE), and papers included in all previous CICTP proceedings published by ASCE have been indexed via the EI Compendex and can be accessed worldwide. The CICTP series, established by COTA and sponsored by ASCE and Transportation Research Board (TRB), is a premier gathering of transportation professionals worldwide who are interested in contributing to or gaining a profound understanding of transportation development in China. Selected papers from previous CICTPs have been invited to submit to special issues of SCI-indexed journals. We plan to continue this tradition and seek to publish special journal issues for CICTP2015 on internationally recognized journals, including: **ASCE Journal of Transportation Engineering, ASCE Journal of Urban Planning and Development, IET Intelligent Transportation Systems Journal, Journal of Intelligent Transportation Systems, Transportation Research Part C, Transportation Research Part D.**

As the hosts and organizers of CICTP2015, BJTU and COTA warmly welcome transportation professionals from academia, industry, and government agencies to participate in and/or contribute to CICTP2015.

CICTP2015 will address critical issues and challenges emerging from the development of efficient, safe and green multimodal transportation systems. The conference will provide a platform for exchanging and sharing of international experiences in developing and applying innovative solutions and advanced technologies in transportation. In addition to regular technical sessions, several plenary sessions are planned for internationally prestigious experts and scholars to discuss the state-of-the-art/practice transportation development. Other special forums will be focused on issues that are of great interest to the audience of various backgrounds, including the World Bank Forum, the Dean's Forum, and COTA Career Development Forum for Young Scholars and Students. The best-paper awards and other professional awards will be granted to the authors of excellent papers or institutes/enterprises which have made outstanding contributions to the development of transportation systems in China.

Please visit [http://www.nacota.org/Events\\_CICTP.html](http://www.nacota.org/Events_CICTP.html) for more information about the conference.

## COTA Membership Online Registration Website Officially Launched

Starting from January 2015, COTA members and friends can renew or register their membership using the newly launched COTA membership online registration website <http://member.cota-home.org>.

**COTA Membership  
Online Registration  
Website**

<http://member.cota-home.org/>

All first-time users, including existing members, need to create a COTA membership account following the instructions.

For existing members or people who have been involved in various COTA activities in the past, some profile information may have been included in the COTA database. Once the account has been validated, members can view and manage their membership status and update profile information online.

The screenshot shows the login page for the COTA Membership Online Registration Website. The page header includes the COTA logo and the text "Chinese Overseas Transportation Association". Below the header, there is a "Login to COTA Membership Account" section with a "Login Name" field (with "Email" as a placeholder) and a "Password" field (with "Password" as a placeholder). Below these fields, there are links for "First-time user? Create new account now." and "Forgot your login password? Retrieve your login info." A blue "Login" button is positioned below these links. A "Note" section follows, containing five numbered instructions: 1) First-time users must create an account first. 2) Users must validate their email address. 3) After successful account creation, users can retrieve their login password by clicking "Retrieve your login info." 4) Users can view their membership status, update their profile, pay dues, or change their password. 5) A 30-minute time window is provided for these actions, after which the system will log the user out.

Members now can pay membership dues using credit/debit cards or via Paypal through this web portal. A receipt confirmation will be sent to the registered email once payment is received.

Any questions regarding this online registration system can be sent to [transman.cotamembership@gmail.com](mailto:transman.cotamembership@gmail.com).



## ORGANIZERS

**Chinese Overseas**

**Transportation**

**Association**

**(COTA)**

**Shanghai Maritime**

**University**

**(SMU)**

Based on the review results and recommendation from the CICTP2016 Host Selection Committee, the COTA BOD has selected Shanghai Maritime University (SMU) as the host university for CICTP2016.

SMU was established by the Ministry of Communications in 1959. The school currently has a full-time student population of nearly 15,000, including over 10,000 undergraduate and 2000 graduate students. SMU has more than 800 teaching and research staff, of whom over 100 are full professors. SMU is a multidisciplinary university, and is one of the best Chinese universities for specialization in maritime, shipping and transport education.



The application submitted by the College of Transport & Communications at Shanghai Maritime University indicated strong support from the university leadership. COTA and SMU are currently in the contracting process. More information about CICTP2016 will become available later this year.