

The Second Workshop on Intelligent Transport Systems between Tongji University and the University of Tokyo

- *Recent ITS Advances in Japan and China*

1. History

The First Workshop on Intelligent Transport Systems (ITS) between Tongji University (TJ) and the University of Tokyo (UT) was held at Tongji University on May 1st, 2015. The theme of the workshop was *The State-of-the-Art and the Future of ITS Research & Development in Japan and China*. More than 50 participants from International Academic Committee of ITS Japan, ITS Center of UT and College of Transportation Engineering of TJ have shared knowledge and thoughts regarding ITS research and development both in Japan and China. Its success made a good start of a series of international workshops and the enhancement of sustainable collaborations between these two leading research institutes in the field of ITS.

2. Aim and Theme

With the successful start, the second workshop is intended to bring in-depth communications and more mutual understandings of ITS research and development. The theme of this workshop will be *Recent ITS Advances in Japan and China*. Researchers from UT and TJ as well as invited guests will intensively introduce and discuss recent achievements both in scientific research and practical application of ITS. In addition, an agreement of collaboration between the Institute of Industrial Science of UT and College of Transportation Engineering of TJ will be signed at this opportunity.

3. Organizers

- Local Organizer: ITS Center, the Institute of Industrial Science, UT
- Co-Organizer: College of Transportation Engineering, TJ

4. Date

- Nov. 28 (Mon.) ~30 (Wed.) , 2016

5. Venue

- Komaba II research campus, the University of Tokyo
(Address: Komaba 3-8-1, Meguro 153-8902, Tokyo, Japan)

6. Program

Time	Agenda
10:00-11:00	<ul style="list-style-type: none"> ● Courtesy Visit & Signing Ceremony (Memorandum on Collaboration between UT and TJ) ● Technical Demonstration of ITS center of UT (concurrently)
12:00-13:30	Lunch
Opening & Executive Session (Moderator: Prof. Takashi OGUCHI)	
13:30-13:40	<ul style="list-style-type: none"> ● Opening Speech Prof. Takashi OGUCHI, ITS Center, UT
13:40-13:50	<ul style="list-style-type: none"> ● Welcome Remarks Prof. Yoshihiro SUDA, Head of ITS Center, UT
13:50-14:20	<ul style="list-style-type: none"> ● Opening Remarks and Introduction of International Joint Research Laboratory of Transportation Safety of Tongji University Prof. Jian LU, Dean of College of Transportation Engineering, TJ Prof. Xuesong WANG, Executive Director of International Joint Research Laboratory of Transportation Safety, TJ
14:20-14:50	<ul style="list-style-type: none"> ● Keynote Speech 1 (Japan) <i>Introduction to the Advanced Mobility Research Center (ITS Center) of The University of Tokyo</i> Prof. Yoshihiro SUDA
14:50-15:20	<ul style="list-style-type: none"> ● Keynote Speech 2 (China) <i>The Transportation Systems 2.0 and ITS Research Methods to Explore</i> Prof. Xiaoguang YANG
15:20-15:40	<ul style="list-style-type: none"> ● Coffee Break
15:40-16:10	<ul style="list-style-type: none"> ● Keynote Speech 3 (Japan) <i>Weaving Advisory – A C-ITS Approach</i> Prof. Edward CHUNG
16:10-16:40	<ul style="list-style-type: none"> ● Keynote Speech 4 (China) <i>Emerging Research and Practice of Smart City and ITS in China</i> Prof. Xinghua LI
16:40-17:00	<ul style="list-style-type: none"> ● Concluding Remarks
18:00-19:30	<ul style="list-style-type: none"> ● Reception (at Shibuya)
Technical Session 1 (Moderator: Assoc. Prof. Miho IRYO)	
Nov.29 (Tue.)	<ul style="list-style-type: none"> ● Presentation 1-1 (China) <i>Activity Annotation and User Classification Based on Mobile Phone Data</i> Prof. Chao YANG
	<ul style="list-style-type: none"> ● Presentation 1-2 (Japan) <i>Analysis of Pedestrian Road Crossing Behavior at Signalized Intersections</i> Assoc. Prof. Miho IRYO

10:40-11:00	<ul style="list-style-type: none"> ● Presentation 1-3 (China) <i>A Two-Stage Model for Optimizing a Flexible Bus Bridging Strategy During Metro Disruptions</i> Assoc. Prof. Yuxiong JI
11:00-11:20	<ul style="list-style-type: none"> ● Presentation 1-4 (Japan) <i>Practical Research for Enhancement of Convenience of Public Transit</i> Assoc. Prof. Koichi SAKAI
11:20-12:20	<ul style="list-style-type: none"> ● Lunch Break
Technical Session 2 (Moderator: Assoc. Prof. Keshuang TANG)	
12:20-12:40	<ul style="list-style-type: none"> ● Presentation 2-1 (China) <i>Determining the Macroscopic Fundamental Diagram on the Basis of Mixed and Incomplete Traffic Data</i> Assoc. Prof. Yangbeibei JI
12:40-13:00	<ul style="list-style-type: none"> ● Presentation 2-3 (Japan) <i>Improving Resolution of Wide-Angle On-Vehicle Camera Images -- Possibility of Sensing by General Vehicles</i> Assoc. Prof. Shintaro ONO
13:00-13:20	<ul style="list-style-type: none"> ● Presentation 2-4 (China) <i>Cycle-by-Cycle Estimation of Signal Timing and Queue Length at Signalized Intersections Based on Probe Data</i> Assoc. Prof. Keshuang TANG
13:20-13:40	<ul style="list-style-type: none"> ● Presentation 2-2 (Japan) <i>Development of Hyperpath-based Risk-Averse Route Guidance System and its Verification</i> Assoc. Prof. Daisuke FUKUDA
13:40-14:00	<ul style="list-style-type: none"> ● Presentation 2-5 (Japan) <i>Optimization of Coordinated Traffic Signal Control: Variational Theory based Formulation and its Stochastic Extension</i> Assist. Prof. Kentaro WADA
14:00-14:20	<ul style="list-style-type: none"> ● Coffee Break
Technical Session 3 (Young Session) (Moderator: Assist. Prof. Kentaro WADA)	
14:20-14:40	<ul style="list-style-type: none"> ● Presentation 3-1 (China) <i>Cycle-based Queue Length Estimation for Signalized Arterials Using Low-Resolution Point Detector Data</i> Ph.D. Student, Ms. Jiarong YAO
14:40-15:00	<ul style="list-style-type: none"> ● Presentation 3-2 (Japan) <i>Exploring Personal Mobility Vehicle (PMV), Pedestrian and Cyclist Interactions on Shared Spaces</i> Project Researcher, Dr. Charitha DIAS

	15:00-15:20	<ul style="list-style-type: none"> ● Presentation 3-3 (China) <i>Understanding the trigger of breakdown at tunnel sag section and exploring the cause with an improved car-following model</i> Master Student, Mr. Yingjun YE
	15:20-15:40	<ul style="list-style-type: none"> ● Presentation 3-4 (Japan) <i>Traffic performance analysis of road network based on dynamic user equilibrium</i> Ph.D. Student, Mr. Koki SATSUKAWA
	15:40-16:00	<ul style="list-style-type: none"> ● Presentation 3-5 (China) <i>Partition-Enabled Multimode Band Approach to Arterial Traffic Signal Control Optimization</i> Master Student, Ms. Li ZHOU
	16:00-16:20	<ul style="list-style-type: none"> ● Presentation 3-6 (Japan) <i>Comparing the Effectiveness of Midblock Crosswalk Types in Urban Areas</i> Ph.D. Student, Mr. Muhammad ABDULLAH
	16:20-16:30	<ul style="list-style-type: none"> ● Closing address Prof. Takashi OGUCHI Prof. Xiaoguang YANG
Nov.30 (Wed.)	11:00-12:00	<ul style="list-style-type: none"> ● Technical Visit 1 ➤ TMC of Tokyo Metropolitan Police
	14:00-15:00	<ul style="list-style-type: none"> ● Technical Visit 2 ➤ Metropolitan Expressway Control Center

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