IIS UTokyo Symposium on ITS Research

ONLINE

April 16, 2021

12:00-16:00 JST (GMT+9) / 1:00-5:00 pm AEST (GMT+10)

ITS (Intelligent Transport Systems) utilizes traffic engineering, mechanical engineering, information engineering and others in an integrated manner to improve the safety, capacity and efficiency of the transportation systems. This symposium will introduce various international cutting-edge researches and developments in ITS. The experts will share their knowledges on ITS globally.

Organized by

Advanced Mobility Research Center (ITS Center), Institute of Industrial Science (IIS), the University of Tokyo (UTokyo)

Queensland University of Technology (QUT)

In cooperation with

WCTRS: SIG C3 – Intelligent Transport Systems

PROGRAM (TENTATIVE)

12:00–12:05   *Opening remarks*

Takashi Oguchi (Professor , The University of Tokyo)

12:05–12:20   *Mobility Innovation for post pandemic era*

Yoshihiro Suda (Professor , The University of Tokyo)

12:20–12:35   *Traffic sensing and state prediction under mixed traffic conditions*

Lelitha Devi Vanajakshi (Professor , Indian Institutes of Technology Madras)

12:35–12:50   *Day-to-Day Dynamic OD Flow Estimation Using CV Trajectories and AVI Data*

Keshuang Tang (Professor , Tongji University)

12:50–13:05   *Traffic State Estimation by Backward Moving Observers*

Masao Kuwahara (Professor , Tohoku University)

13:05–13:20   *Rhythmic Control: an Innovative Traffic Control Scheme in a Fully Connected and Automated Vehicle Environment*

Meng Li (Associate Professor , Tsinghua University)

Break

13:30–13:45   *Fundamental discussion on traffic signal coordination and connected vehicles*

Takashi Oguchi (Professor , The University of Tokyo)

13:45–14:00   *Understanding driver behaviours in a connected and automated environment: Models, simulation platform, and calibration issues.*

Zuduo Zheng (Associate Professor , The University of Queensland)

14:00–14:15   *Predictive activity inducement to achieve the efficient use of time-space resources ~ toward the new normal life ~*

Ryota Horiguchi (CEO, i-Transport Lab. Co., Ltd.)

14:15–14:30   *Network wide traffic volume estimation and prediction*

Edward Chung (Professor , The Hong Kong Polytechnic University)

14:30–14:45   *Long-term variations of motorway traffic flow and safety performance ~ Importance of autonomous driving vehicles ~*

Jian Xing (Nippon Expressway Research Institute Co., Ltd.)

Break

14:55–15:10   *Transport network monitoring 'big' data and its application examples from Brisbane, Australia*

Ashish Bhaskar (Associate Professor , Queensland University of Technology)

15:10–15:25   *Automated Driving in Wider ODD (Operational Design Domain): Recognizing Hand Signals, Traffic Mirrors, and Events in Blind Spots*

Shintaro Ono (Project Associate Professor , The University of Tokyo)

15:25–15:40   *Battery Electric Vehicle Sharing's Use Behavior and Potential Demand Shift Analysis*

Enjian Yao (Professor , Beijing Jiaotong University)

15:40–15:55   *HMI of ADAS leading appropriate understanding and response*

Kimihiko Nakano (Professor , The University of Tokyo)

15:55–16:00   *Closing remarks*

Ashish Bhaskar (Associate Professor , Queensland University of Technology)

Program time is Japan Standard Time (GMT+9hr)