Advances in Intelligent Traffic Management
From Reinforcement Learning to Digital Twins

Prof Masao Kuwahara, Tohoku University, Japan.
*Decentralized Network-wide signal control by multi-agent reinforcement learning based on decomposition of Markov decision process*

Prof Toshio Yoshii, Ehime University, Japan.
*Effective traffic safety measures under the traffic condition with high accident risk.*

Prof Edward Chung, Hong Kong Polytechnic University.
*Network wide traffic volume prediction via clustering and deep learning with limited data.*

Prof Lijun Sun, McGill University
*Bayesian calibration and stochastic simulation of car-following models.*

Dr Ryota Horiguchi, i-Transport Lab. Co., Ltd.
*Building transport digital twin based on the online simulation framework.*

Prof Wenyi Xia, HEC Montréal
*A structural estimation of airport ground transportation mode choice using aggregate data.*

FRIDAY, OCTOBER 13
9:00 AM – 12:30 PM
MechEng MD267 (Seminar Room)
2nd floor, MacDonald Engineering Building

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