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.

McGill UNIVERSITY

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

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