THE UNIVERSITY OF HONG KONG

DEPARTMENT OF CIVIL ENGINEERING
SEMINAR
JOINTLY ORGANIZED WITH
HONG KONG SOCIETY FOR TRANSPORTATION STUDIES
INSTITUTE OF TRANSPORT STUDIES, HKU

# Large Deployment of Connected Vehicles in Australia

Prof. Majid Sarvi
Melbourne School of Engineering, University of Melbourne, Australia

Date: September 6, 2024 (Friday)
Time: 11:00 a.m. – 12:00 p.m.
Venue: Room 612B, 6/F Haking Wong Building, The University of Hong Kong

**Abstract**
Co-operative Intelligent Transport Systems (C-ITS) technology enables road users and infrastructure to communicate with each other, sharing information about road conditions, disruptions, traffic flow and safety incidents. C-ITS has been proven to have the potential to provide significant safety benefits by detecting and providing advanced warning to drivers to prevent incidents and improve efficiency of transport networks. C-ITS needs alignment amongst governments and industry for deployment to realise these benefits. We have embarked on an ambition project which involves uplifting around 30 intersections across five key corridors in Melbourne busy urban environment with the advanced sensing and communication capability to continually transmit live information about traffic and safety for road users. Deploying C-ITS at scale in a real-world environment. This will allow assessment of proposed benefits, deployment considerations and options, and provide recommendations that could support Australia's road authorities' adoption of C-ITS in a nationally harmonised manner.

**About the Speaker**
Professor Sarvi is the chair in transport engineering and the director of Transport Technology program at the University of Melbourne. He is the founder and director of the Australian Integrated Multimodal EcoSystem (AIMES). AIMES is a world first; a grid mapped with smart sensors to test emerging, multimodal connected large-scale transport technologies in a complex urban environment. Through AIMES, Prof Sarvi is bringing the transport network together, collaborating with more than 50 domestic and international partners from industry and government. AIMES' key objective is to deliver safer, more efficient and sustainable transport solutions for all road users to enable smarter cities to thrive. Prof Sarvi has more than 25 years of professional, academic and research experience in the areas of intelligent transport systems. His research is multidisciplinary with an international outlook applying theory to combat real-world challenges. His expertise covers a range of topics, including: Artificial Intelligence in Transport, connected and automated multimodal transport systems and CITS. He has been the author/co-author of over 350 refereed publications in top transportation journals and various conference and symposia proceedings. He currently serves on the editorial board of several journals including Transportation Research Part B, Transportation Research Part C, and Transportmetrica.

- ALL ARE WELCOME -

SCW/plt