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Towards 6G-enabled Vehicle-to-Everything: Extreme Connectivity and Intelligence

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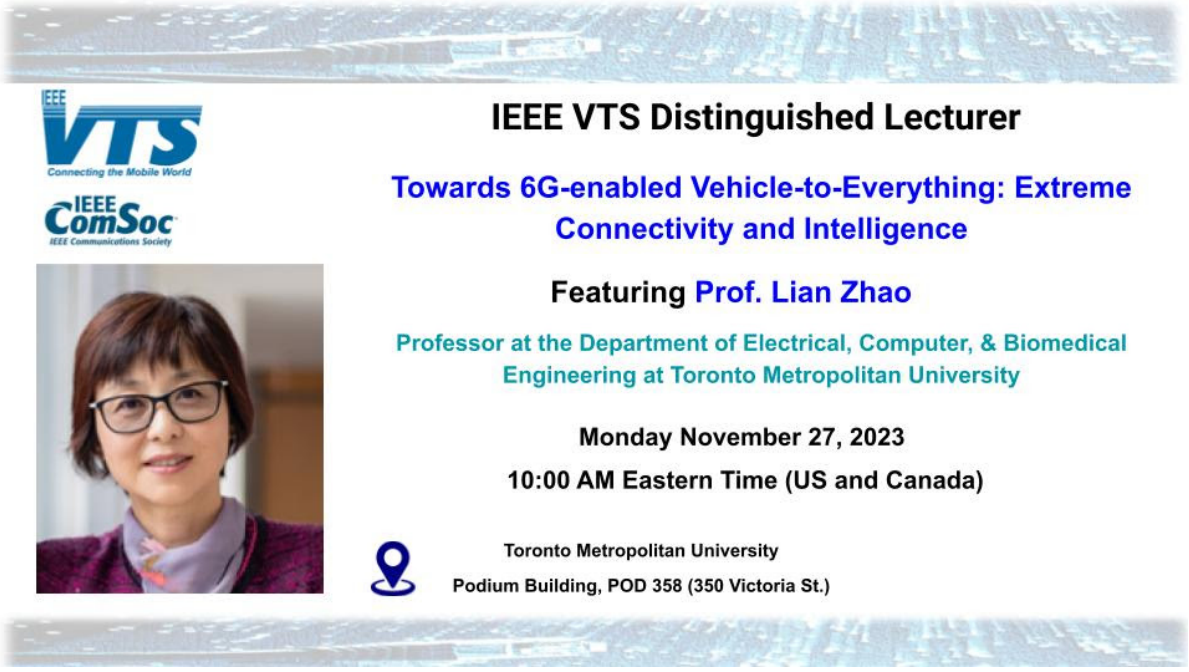
TOWARDS 6G-ENABLED VEHICLE-TO-EVERYTHING: EXTREME CONNECTIVITY AND INTELLIGENCE



Vehicle-to-everything (V2X) has developed rapidly over the past decades. In the imminent era of 6G communications, unprecedented advancements will reshape our technological landscape and redefine the boundaries of the digital experience. While the specific details of 6G-enabled V2X networks are still under exploration, there is a consensus that it will enable two main features: ubiquitous communications via satellite-terrestrial integrated networks and intelligent connections tailored for emerging applications, notably autonomous vehicles. In this talk, we will first discuss extended use cases and potential network architectures in 6G. We will then focus on one case study, AI-enabled connected autonomous driving to support one of the representative 6G use cases. The case study focuses on enhancing resource scheduling for timely and reliable edge computing in autonomous driving. We will highlight the indispensable role of AI in network management, aiming to provide seamless connectivity and meet diverse service demands in the 6G era.

Date and Time

Date: **27 Nov 2023**
Time: **10:00 AM to 11:00 AM**
All times are (UTC-05:00) Eastern Time (US & Canada)
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Location

Toronto Metropolitan University
350 Victoria St.
Toronto, Ontario
Canada
Building: Podium Building (POD)
Room Number: 358
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Hosts

Toronto Chp, VT/CIS/IT12/UFFC/OE22/CS/GRS/ITS/BIO
Toronto Section Chapter, COM19/BT02

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Registration

Starts **24 October 2023 11:00 PM**
Ends **27 November 2023 10:00 AM**
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No Admission Charge

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Speakers

Dr. Lian Zhao

Biography:

Dr. Lian Zhao is a professor at the Department of Electrical, Computer, & Biomedical Engineering at Toronto Metropolitan University. She has been an IEEE Communication Society (ComSoc) and IEEE Vehicular Technology (VTS) Distinguished Lecturer (DL); received the Best Land Transportation Paper Award from IEEE Vehicular Technology Society in 2016, Top 15 Editor Award in 2016 for IEEE Transaction on Vehicular Technology, Best Paper Award from the 2013 International Conference on Wireless Communications and Signal Processing (WCSP), and the Canada Foundation for Innovation (CFI) New Opportunity Research Award in 2005. She has been serving as an Editor for IEEE Transactions on Wireless Communications, IEEE Internet of Things Journal, and IEEE Transactions on Vehicular Technology (2013-2021). She served as a General Chair for 2023 ComSoc Frontier Networking Symposium (FNS), co-Chair of Wireless Communication Symposium for IEEE Globecom 2020 and IEEE ICC 2018; Finance co-Chair for 2021 ICASSP; Local Arrangement co-Chair for IEEE VTC Fall 2017 and IEEE Infocom 2014; co-Chair of Communication Theory Symposium for IEEE Globecom 2013. She has been an elected member for the Board of Governor (BoG) since 2023. She has severed as a panel expert in various federal, provincial, and international evaluation committees.