

コンピューティング科学研究領域セミナー

(第2回情報科学系セミナー)

テーマ

“Vehicular Communication – Past, Present and Prospects”

講演者: Nanyang Technological University

教授 Yong Liang Guan 氏

日時: 令和4年12月23日(金) 15:30~17:30

場所: 情報科学系講義棟 大講義室

講演要旨:

V2X (vehicle to everything) communication refers to a new wireless communication paradigm that allows moving vehicles to communicate directly with each other, or with access points installed on roadside infrastructure, without human in the loop. This technology promises to enhance road safety, cut driving time, save fuel, augment GPS, redefine traffic and fleet management, enable gantry-less toll charging and parking, support cooperative AV and EV, etc. In this lecture, I will give an overview of the V2X technology, protocol standards, applications, adoption around the world, industry and market outlook. Selected research problems revolving around V2V shadowing and mitigation, iterative BEM receivers for vehicular channels with extreme mobility, and joint radar communication, will also be discussed.

講演者略歴:

Prof. Yong Liang GUAN obtained his PhD degree from the Imperial College London, UK, and Bachelor of Engineering degree with first class honours from the National University of Singapore. He is now a Professor of Communication Engineering at the School of Electrical and Electronic Engineering, Nanyang Technological University (NTU), Singapore, where he leads the Continental-NTU Corporate Research Lab and led the successful deployment of the campus-wide NTU-NXP V2X Test Bed. His research interests broadly include coding and signal processing for communication systems and data storage systems. He has published an invited monograph, 2 books and more than 450 journal and conference papers. He has secured over S\$70 million of external research funding. He has 15 filed patents and 3 granted patents, one of which was licensed to NXP Semiconductors. He is an Editor for the IEEE Transactions on Vehicular Technology. Currently he is also an Associate Vice President of NTU and a Distinguished Lecturer of the IEEE Vehicular Technology Society.

聴講を希望される方は下記お問合せ先までご連絡ください。

お問合せ先: 共通事務管理課 共通事務第二係 (E-mail: is-secr@ml.jaist.ac.jp)

