## Al Based Wireless Techniques For Mobile UE



Speaker: Xiaoyan Wang, Associate Professor, Ibaraki
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## **Time: 16:30**

**Location: Y203** 

## **Abstract:**

Future-generation wireless networks (i.e., 5G and beyond) should accommodate surging growth in mobile data traffic and support a variety of forthcoming services with diverse requirements. Considering the ever-increasing complexity of the dynamic network scenario with mobile UEs (user equipments), AI-based technique is considered to be a significant methodology. This talk focuses on two potential topics in this research area, i.e., 1, deep reinforcement learning based beamforming for small cell 5G network with mobile UE, and 2, recurrent neural network based radar interference mitigation for self-driving.

## **Biography:**

Xiaoyan Wang received the BE degree from Beihang University, China, and the ME and Ph. D. from the University of Tsukuba, Japan. He is currently working as an associate professor with the Graduate School of Science and Engineering at Ibaraki University, Japan. Before that, he worked as an assistant professor at National Institute of Informatics (NII), Japan, from 2013 to 2016. His research interests include intelligent

networking, wireless communications, mmWave radar, edge computing, big data systems, security and privacy.

