



### Seminar On

## Research on the Electromagnetic (EM) Surfaces and Its Development

Professor Min Wang

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**Date** : 26 February 2025 (Wednesday)  
**Time** : 11:00 am – 12:00 nn  
**Venue** : Room 15-202, 15/F, State Key Laboratory of Terahertz and Millimeter Waves,  
Lau Ming Wai Academic Building, City University of Hong Kong

### Abstract

This presentation explores the cutting-edge advancements in Electromagnetic (EM) Surfaces and their transformative applications in modern wireless communication systems. Focusing on the flexible control of EM waves (phase, amplitude, polarization, and frequency), we introduce a series of innovative EM surface designs that break the limitations of traditional antennas, enabling wideband operation, high aperture efficiency, and dynamic beam reconfiguration. The presented work establishes EM surfaces as a disruptive platform for next-generation wireless systems, offering unprecedented cost-efficiency, ultra-compact form factors, and intelligent beam agility, thereby bridging critical gaps in 5G evolution and 6G standardization.

### Biography

**Min Wang** is an Associate Professor at Chongqing University of Posts and Telecommunications with Title of Bayu Young Scholar in Chongqing City. She received the B.S. degree from the School of Physical Electronics, University of Electronic Science and Technology of China, Chengdu, China, in 2014, and the Ph.D. degree from the Department of Electronic Engineering, Tsinghua University, Beijing, China, in 2019. Since 2019, she has been with the School of Optoelectronics Engineering, Chongqing University of Posts and Telecommunications, Chongqing. Prof. Wang's current research interests include intelligent surface technology, reconfigurable antennas, and RF circuits. She has published nearly 100 academic papers and applied for over 30 patents in China.

\*\*\* ALL ARE WELCOME \*\*\*

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