



# School of Electronic Engineering and Computer Science

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## **Professor Xiaodong Chen, BSc PhD SMIEEE**



## **Professor**

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Office Hours: Friday 14:00-16:00

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## Teaching

### Mobile and WLAN Technologies (*Undergraduate*)

This module provides a rigorous and in depth study of commercially deployed mobile cellular and wireless local/personal area communications technologies.

### Mobile and WLAN Technologies (*Postgraduate*)

Topics covered include indepth study of current mobile communication technologies: Network architecture - GSM/WCDMA; Pico and Femto cells. WCDMA including its use as a multi access technique; spread-spectrum and code spreading, high-speed datalink access HSDPA



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## Research

### Research Interests:

Antennas: UWB antennas and arrays, multiband CP antennas, RFID antennas and MIMO antennas

Devices: THz magnetrons and gyrotrons and quasi-optic systems

Communications: UWB communications, UWB powerline communications and MIMO systems

Imaging: UWB imaging system and THz imaging system

Bio-electromagnetics: RF interaction with human body, Implanted antennas and UWB pulse electroporation of cells



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