

ELECTRICAL + COMPUTER ENGINEERING

NEXT-GENERATION WIRELESS NETWORKS EMPOWERED BY VIRTUALIZATION AND ARTIFICIAL INTELLIGENCE

DR. JIE GAO | ASSISTANT PROFESSOR | MARQUETTE UNIVERSITY
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

Sept. 8th, 2 pm, Microsoft Teams

(All students enrolled in the colloquium course should already be added to the course's Teams page. If not enrolled in the course, email Dr. Cris Ababei for a calendar invite to the meeting.)

The development of the Internet of Things (IoT) demands the evolution of wireless communication networks. Emerging IoT use cases and applications, such as smart city, autonomous driving, factory automation, e-health, etc. usually have stringent requirements in terms of reliability, latency, throughput, and so on. Such requirements pose new challenges to the architecture design, network management, and resource orchestration for the next-generation wireless networks. In this presentation, we introduce a virtualization-based network architecture and illustrate where and how artificial intelligence (AI) should be incorporated to enable an automated and flexible wireless network for the future.

