

Computation Offloading and Task Scheduling at Network Edge

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Tuesday, April 26, 2022 2:00 – 3:00 p.m. Olin 202

> Reception in Olin 204 3:00-3:30 p.m.

## Abstract

In the 5G era, wireless networks are anticipated to provide connectivity for massive mobile devices and to enable a variety of innovative applications, which generate enormous computing service demands. To support the emerging computing service demands, Mobile Edge Computing (MEC), as a cutting dge technology in 5G, utilizes computing resources on the network edge to provide computing services for mobile devices within a radio access network. We will investigat computing resource management for MEC to satisfy diverse computing requirements in wireles networks. We will introduce three computation offloading and task scheduling schemes tailored for supporting representative use cases and network scenarios in 5G, including autonomous driving, Unmanned Aerial Vehicle (UAV) assisted networks, and highly dense vehicular network Machine learning algorithms are applied to facilitate **latency** and reliable computing services in complex and dynamic network environments.

## Biography

Dr. Mushu Li received a Ph.D. degree from the University of Waterloo, Canada, in 2021, and a M.A.Sc degree from Ryerson University, Toron@anada, in 2017. She is currently a Postdoctoral Fellow with the Department of Electrical and Computer Engineering, University of Waterloo. Dr. Li was a recipient of the NSERC Canada Graduate Scholarshi@0(20)18nd