

## **Seminar Talk**

**Dr. Min Song**  
**Professor and Chair**  
**Department of Electrical & Computer Engineering**  
**Stevens Institute of Technology**

**Friday, April 19, 2019**  
**3:00 p.m. KH 224**

**Title:** Message Coverage Maximization in Infrastructure-Based Urban Vehicular Networks

**Abstract:**

The success of vehicular networks is highly dependent on the coverage of messages, which refers to the trajectory of messages over time. Many of the existing works primarily performed in 1-D environments and merely focused on vehicle-to-vehicle communications to enhance the coverage in a given road network. Consequently, there still lacks a clear comprehension of using road infrastructures to improve message coverage in 2-D environments. In this talk, I will present a message coverage maximization algorithm (MCMA) that carefully deploys the roadside units to achieve the maximum message coverage in a 2-D environment. We first derive the an-