Title: Data-Driven Control of Cellular Networks

Abstract:

Today's networks have access to a wealth of real-time connectivity information that can be used to provide accurate forecasts of bandwidth or city-wide cell congestion. Network operators have an incentive to deliver such rich forecasts to a host of diverse control applications, who can leverage them to improve mobile video streaming or intelligently schedule sensor updates to Internet of Things (IoT) devices. In this talk, we will explore the potential of machine learning for modern networks through data-driven case studies from our research.