

Efficient Video Delivery in Wireless Mesh Networks

Dr. Wanching Tu

Abstract

A wireless mesh network (WMN) is a wireless architecture such that WMN routers have multiple channels and radios, and construct a stable, multi-hop backbone for data transmission. It is widely accepted that wireless mesh networks have great potential for real-time interactive streaming media applications because of their communication advantages over other existing wireless networks.

However, WMNs are still based on the wireless medium, which challenges the QoS of high-rate video transmission. In this seminar talk, I will briefly introduce one of my recent research topics, *adaptive split transmission*, on efficiently improving the QoS of high-rate video transmission in WMNs. I will also briefly present the performance evaluation for split transmission by using Network Calculus and NS2 simulations.