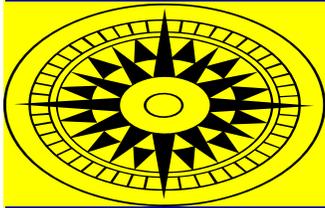


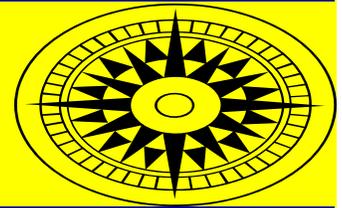
COMPUTER SCIENCE COLLOQUIUM



April 26, 2010

11:00am - 12:00 pm

Petty Science Building, Room 224



Towards Seamless Mobility in Wireless Networks

Abstract:

The ever-increasing demands for mobile services have called for seamless mobility in wireless networks. Seamless mobility offers transparent mobile services to users while they are moving in wireless networks. Seamless mobility is a key element that has led to the wireless success. With the advances of wireless technologies and the continuing growing demand of mobile services, seamless mobility support in wireless networks is facing new challenges. Traditional approaches for providing seamless mobility are not sufficient to tackle all the challenges manifested today.

In this talk, the main challenges and new research issues for providing seamless mobility in emerging wireless networks will be introduced. Our new approaches proposed for achieving seamless mobility in wireless mesh networks and cognitive radio networks will be explained. Finally, some open research issues will be discussed.

Bio:

Dr. Linda Xie received her PhD degree in Electrical and Computer Engineering from Georgia Institute of Technology in 2004. Since then, she has been an Assistant Professor in the Department of Electrical and Computer Engineering at University of North Carolina - Charlotte. Her research interests include resource and mobility management of wireless networks.

Dr. Xie won a prestigious Faculty Early Career Development (CAREER) award from the National Science Foundation (NSF) in 2010. She also received a Best Symposium Co-Chair Award from 2009 IEEE Global Communications Conference (GLOBECOM 2009), a Lee College of Engineering Graduate Teaching Excellence Award from UNC-Charlotte in 2007, and Bonnie Cone Fellowship from the NSF ADVANCE Program at UNC-Charlotte for women faculty members in the science, technology, engineering, and mathematics (STEM) disciplines in 2007. Dr. Xie is on the Editorial Boards of Computer Networks (Elsevier), Journal of Network and Computer Applications (Elsevier), and Journal of Communications (Academy). She is a Symposium Co-Chair for the Wireless Networking Symposium of the 2009 and 2010 IEEE Globecom Conferences.