UMass Lowell
Computer Science
Colloquium
Announcement

Speaker: Dr. Shuhui Yang, RPI
Date & Time: Wednesday, Nov. 28, 2007, 3:00pm--4:00pm
Place: Olsen 311, Refreshments are served at 2:45pm

Connected Dominating Set in Wireless Ad Hoc Networks: Variations with Applications

Wireless ad hoc networks are infrastructureless multi-hop networks consisting of mobile or stationary wireless devices, which include mobile ad hoc networks (MANETs) and wireless sensor networks (WSNs). A connected dominating set (CDS) is frequently used in ad hoc networks as a virtual backbone to support efficient routing, service discovery, and area monitoring. With the emergence of new applications and technologies, we need to extend the traditional CDS concept. This talk discusses the variations of the connected dominating set problem, designing new questions, and developing solutions for them.

This is a joint work with Dr. Jie Wu.

Bio:

Shuhui Yang is a post-doctoral research associate in the Department of Computer Science at Rensselaer Polytechnic Institute. She received her Ph.D. degree in computer science in 2007 from Florida Atlantic University. She received her B.S. and M.S. degrees in 2000 and 2003, respectively, from Jiangsu University, Zhenjiang and Nanjing University, Nanjing, China. Her research interests include wireless networks and mobile computing, parallel and distributed systems, and wireless security and privacy.

Colloquium Coordinator: Cindy Chen, cchen@cs.uml.edu, Website: http://www.cs.uml.edu/~cchen/colloquia/