Research Colloquium
Department of Computer Science

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will speak on:

Mobility in Ad Hoc Wireless Networks: Friend or Foe?

11:00 a.m. on Thursday, March 16 in Houser 108

Ad hoc wireless networks are multi-hop networks in which mobile nodes cooperate to maintain network connectivity and perform various functions including routing. This talk focuses on two different views of mobility in ad hoc wireless networks. One view casts mobility as an undesirable feature. This view normally represents an ad hoc wireless network as a traditional proactive maintenance of link state information to ensure connectivity. Another view considers mobility as a desirable feature which can increase network capacity and even assist the routing process. We offer our views on these two approaches and discuss some recent results on mobility-mitigation mechanisms, including buffer zone and view consistency. Finally, we present some future directions of this area and their potential role in the GENI initiative.

Jie Wu is a Professor of the Computer Science and Engineering Department at Florida Atlantic University. He has published over 300 papers in various journals and conference proceedings. His research interests are in the areas of wireless networks and mobile computing, routing protocols, fault-tolerant computing, and interconnection networks. He has served on many conference organization committees. Dr. Wu was on the editorial board of the IEEE Transactions on Parallel and Distributed Systems and was a co-guest-editor of the IEEE Computer and Journal of Parallel and Distributed Computing. He served as the program co-chair for MASS 2004, program vice-chair for ICDCS 2001, and program vice-chair for ICPP 2000. He is the author of the text "Distributed System Design" published by CRC press. He was also the recipient of the 1996-97 and 2001-2002 Researcher of the Year Award at Florida Atlantic University. Dr. Wu has served as an IEEE Computer Society Distinguished Visitor and is currently the chair of the IEEE Technical Committee on Distributed Processing (TCDP).