

Keynote Talk

State of Multi-Hop Wireless Networking

Nitin Vaidya

University of Illinois at Urbana-Champaign

nhv@illinois.edu

Abstract

Multi-hop wireless networks are potentially useful in many applications, and consequently, research in recent years has explored many different instantiations of such networks. These include mobile ad hoc networks, mesh networks, sensor networks, and delay-tolerant networks. The goal of this talk is to assess the current state of the art in this area, and to identify the significant research challenges as well as practical difficulties in deploying such networks.

Categories & Subject Descriptors: C.2 COMPUTER-COMMUNICATION NETWORKS

General Terms: Design, Experimentation, Standardization, Theory.

Keywords: Wireless multi-hop networks

Bio

Nitin Vaidya received the Ph.D. from the University of Massachusetts at Amherst. He is a Professor of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign (UIUC), and co-director of the Illinois Center for Wireless Systems (ICWS). He has held visiting positions at the Indian Institute of Technology-Bombay, Microsoft Research, and Sun Microsystems, as well as a faculty position at the Texas A&M University. He co-authored papers that received awards at the 1998 ACM MobiCom, 2003 Personal Wireless Communications (PWC), and 2007 ACM MobiHoc conferences. Nitin Vaidya is a recipient of a CAREER award from the U.S. National Science Foundation. He has served as Editor-in-Chief for the IEEE Transactions on Mobile Computing and ACM SIGMOBILE publication MC2R. For more information, please visit <http://www.crhc.uiuc.edu/wireless/>.