Abstract

Mobile Ad hoc networks have emerged recently as an important trend of future wireless systems. The evolving wireless networks are seriously challenging the traditional OSI layered design. In order to provide high capacity wireless access and support new multimedia network, the various OSI layers and network functions should be considered together while designing the
network. In this paper, we conduct brief discussion on current state of the art and performance optimization challenges like energy efficiency, cross-layer design and its congestion control.

Reference

- Yung Yi and Sanjay Shakkottai. Hop-by-hop Congestion Control over a Wireless Multi-hop Network, 0-7803-8356-7/04/$20.00 (C) 2004 IEEE.
- Nishant Gupta, Samir R. Das. Energy-Aware On-Demand Routing for Mobile Ad Hoc Networks, OPNET Technologies, Inc. 7255 Woodmont Avenue Bethesda, MD 20814 U.S.A., Computer Science Department SUNY at Stony Brook Stony Brook, NY 11794-4400 U.S.A.
- Outay, F.; Vèque, V.; Bouallègue, R.; Inst. of Fundamental Electron., Univ. Paris-Sud 11, Orsay, France This paper appears in: 2010 IEEE 29th International Performance Computing and Communications Conference (IPCCC)
Cross Layer Congestion Control in MANETs and Current State of Art

- Kumaran, T.S. Sankaranarayanan, V. BSA Crescent Eng. Coll., Chennai, India This paper appears in: 2010 Seventh International Conference On Wireless And Optical Communications Networks (WOCN)
- Rashidi, R. Jamali, M.A.J. Salmasi, A. Tati, R. Univ. of Boukan, Boukan, Iran, This paper appears in: AICT 2009. International Conference on Application of Information and Communication Technologies, 2009

Index Terms

- Computer Science
- Wireless

Key words

- Mobile Ad hoc networks
- Cross Layer Congestion Control
- MANETs
- OSI