Wireless Multimedia Systems, 2008 (Topic 9)

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Topic I:
Mobile Ad Hoc Networks

Suggested Reading:
Required Reading:

[Jean2001] Jean-Pieere Hubaux, Thumas Gross, Jean-Yues Le Boudec, and Martin Vetterli, "Toward Self-Organized Mobile Ad Hoc Networks: The Terminodes Project" IEEE Communication Magazine, January 2001, pp. 118-124
[Ian2005] Ian F. Akyildiz, X. Wang, "A Survey on Wireless Mesh Networks", IEEE Radio Communications, Sep 2005, pp. 523-530

a) Fundamental of Ad Hoc Networks

(1) Telecommunications (VLR/HLR)
(2) The Internet (Mobile IP)
(3) Mobile Ad Hoc Networks
    Packet Radio Networks
    MANET
    Sensor Network / Large Scale Networks

b) Routing Issues

(1) Table Driven
(2) On Demand
(3) Multi-Path / Reliability
(4) QoS Routing

c) Major Technical Challenges

(4) Networking
(5) Real Time Transmission
(6) Software

d) Future Works