Mobile Wireless Network Simulations

WiPPET: Wireless Propagation and Protocol Emulation Testbed

1. Geography  arbitrary graph
2. Mobility    planned paths or random walks
3. Radio propagation
   geographically referenced (distance loss, shadow fading)
   receiver referenced (Rayleigh/Ricean, Markovian)
3. Interference calculation
4. Call admission protocols
   strongest BS, LI-DCA, ACP-DCA
5. Power Control
   Async. Distributed Power Control (uplink)
6. Handoff Protocols
   AMPS, NA TDMA, GSM, CDMA
   RSSI-HO, SIR-HO, SIR/RSSI-HO