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Thursday Seminar: 1:00 p.m.
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2000

NCE Cullimore Memorial Lecture

Mobility Management in Next Generation Wireless Systems

Professor Ian F. Akyildiz
Broadband and Wireless Networking Lab
School of Electrical and Computer Engineering
Georgia Institute of Technology

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Abstract

In this talk we present the integration of mobility management protocols for heterogeneous networks under next generation wireless systems, specifically the IMT 2000. The IMT 2000 is to provide wireless services of high quality and integrity to users with varying geographical, network, and service provider access locations. Thus, next generation networks must be able to support inter-carrier handoff, personal mobility, and location management. Current and proposed mobility management protocols for four network types are examined. First, a review is provided of location management algorithms for PCS implemented over a PLMN network. Protocol developments for location registration and handoff are then investigated for Wireless ATM, followed by a discussion of proposed protocols for Satellite networks. Finally, an outline of open problems to be addressed by the IMT 2000 is discussed.

For more information, contact Dr. Yuguang "Michael" Fang, (973)596-6594, fang@njit.edu. For direction, visit <http://www.njit.edu/University/Directions.html>.