

ARO MURI MAASCOM Year 1 Project Review

Modeling, Analysis, and Algorithms for Stochastic Control of Multi-Scale Networks (MAASCOM)

Sept. 10, 2009
Blackwell Inn, Room 202 of Pfahl Hall



Continental Breakfast: 7.00—8.00AM

8:00—09:00AM MAASCOM Overview (Ness Shroff)

Area 1: Traffic Modeling and Performance Analysis of Multi-Scale Networks

9:00— 9:45AM Modeling for Performance Analysis, Network Engineering, and Cybersecurity (Bill Cleveland)

9:45—10:00AM Short Break

10:00—10:30AM VoIP Network Traffic Engineering: Analysis of Queueing Delay and Jitter (Mark Ward)

10:30—11.00AM Spatial Correlation and Mobility Aware Traffic Modeling for Wireless Networks (Ian Akyildiz)

11:00—11.30AM Retransmissions, Heavy Tails, and Long-range Dependence (Jian Tan and Ness Shroff)

11:30—12:30PM Lunch Break

Area 2: Multi-scale Network Control

12:30 — 1:15PM Network Control for Multi-Scale Networks (Eytan Modiano)

1:15 — 1:45PM The Challenges of Meeting QoS Across Multiple Time Scales: A Framework and Theory (P.R. Kumar)

1:45 — 2:15PM Layerless Scheduling = Wireless Network Control (Anthony Ephremides)

2:15 — 2:45PM Break

Area 3: Network Inference and Information Assurance in Multi-scale Networks

2:45 — 3:30PM Network Inference and Information Assurance in Multi-Scale Networks (Lang Tong)

3.30 — 4:00PM Relational Poisson Models for Anomaly Detection (Jennifer Neville)

4:00 — 4:30PM Network Inference for Control and Information Assurance (John Baras)

4:30 — 5:30PM Feedback from the government
