



Fall 2009 CIS Colloquium Series

Finding Popular Categories for RFID Tags

Qun Li

(College of William and Mary)

11am-12pm, Wednesday, December 9

4th Floor Conference Room (Wachman Hall, CC 447)

Abstract: As RFID tags are increasingly attached to everyday items, it quickly becomes impractical to collect data from every tag in order to extract useful information. In this talk, I will discuss the problem of identifying popular categories of RFID tags out of a large collection of tags, without reading all the tag data. We propose two algorithms based on the idea of group testing, which allows us to efficiently derive popular categories of tags. We evaluate our solutions using both theoretical analysis and simulation.

Bio: Qun Li is an associate professor in the Department of Computer Science at the College of William and Mary. He obtained his Ph.D. from Dartmouth College in 2004. He has been working on various topics including wireless ad-hoc networks, wireless LANs, sensor networks, RFID, pervasive computing, and so on. He is interested in both algorithm design and system implementation. He received a NSF Career Award in 2008.

Refreshments will be served!