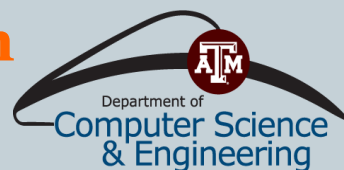


# CSE Industrial Affiliates Program

## LECTURE PRESENTER



### **Dr. James Caverlee**

Assistant Professor

Department of Computer Science and Engineering

Texas A&M University

2:20 p.m. on Tuesday, September 13, 2011 — Room 124 HRBB



## ***Towards Real-Time Crowd-Oriented Search and Computation***

Online communities are the fastest growing phenomena on the Web, enabling millions of users to discover and explore community-based knowledge spaces. While long-lived communities have been one of the key organizing principles of these systems, there is widespread evidence of highly-dynamic, ad-hoc crowd formation in existing social systems. Examples range from users posting to Facebook in response to a live Presidential debate, to users sharing pictures about a chemical fire at a nearby refinery, to blog commenting about breaking news, and so on. These crowds are dynamically formed and potentially short-lived, often with only implicit signals of their formation at all. Identifying these highly-dynamic crowds from the massive scale of the real-time web, monitoring their quality, and connecting stakeholders to these crowds in real-time could revolutionize the decision-making of critical stakeholders. Unfortunately, existing search solutions cannot be directly applied to nascent crowds, leaving a significant research gap. In this talk, I will highlight our work towards developing real-time crowd-oriented search and computation systems, so that high-value stakeholders can monitor, analyze, and distill high-quality information from bursty social systems and actively engage with the crowds generating this information.

**Biography:** Dr. Caverlee received his PhD from the Georgia Institute of Technology in 2007 and joined the faculty at Texas A&M shortly thereafter. He is the director of the infolab, where his research has garnered numerous awards including a DARPA Young Faculty Award and a Center for Teaching Excellence (CTE) Montague-CTE Scholar Award. His teaching and research interests include web-scale information management, distributed data-intensive systems, information retrieval, databases, and social computing.