

# **System Demonstration: Geospatial Data and Mobile Computing for Field Data Collection Systems**

Leslie Miller  
Department of Computer Science  
Iowa State University  
lmiller@iastate.edu

## **Abstract:**

Mobile computing for survey data collection has focused on implementing paper-based procedures for field activities on handheld and tablet devices using a structured client-server model. The goal of Project Battuta has been to develop next-generation field and infrastructure technologies for mobile data collection, with an emphasis on using digital geospatial information resources within the field data collection process. To do so requires a new paradigm for field data collection that draws upon the ability to integrate distributed geospatial information resources in a mobile environment, modern computing paradigms for mediated infrastructures that increase the simplicity and flexibility of the users interactions with data resources in the computer-assisted field data collection environment. Our demo will provide a look into the use of handheld computers in this environment that builds off of our extended infrastructure model.