

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

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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.