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GeoDec: Enabling Geospatial Decision Making

DATE: January 27, 2006

TIME: Refreshments served at 10:45 a.m. with talk to follow

LOCATION: Calit2 Room 3008

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<http://infolab.usc.edu/Shahabi/index.html>

<http://infolab.usc.edu/projects/geodec/index.jsp>

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SPEAKER

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Director of the Information Laboratory,
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GeoDec: Enabling Geospatial Decision Making

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The vision of [GeoDec](#) is to enable an *information-rich* and *realistic* 3-dimensional visualization and/or simulation of a geographical location (e.g., a city), rapidly and accurately. The idea is not just to allow navigation through a 3-D model, but to be able to ask queries and get information about the area seamlessly and effortlessly. The main challenge is: *How to quickly and cheaply integrate, visualize, and simulate all aspects of a geographic region.* The ability to create high-fidelity information-rich models of cities is critical for a wide variety of decision makers. For example, in the United States, GeoDec can be used by city managers, city planners, emergency response planners, and first responders.

In this talk, I will first give our motivation for GeoDec and explain its vision. Next, I will briefly discuss our current activities in the realization of GeoDec. Finally I will conclude with a demonstration of the current prototype of GeoDec.

Bio

Cyrus Shahabi is an Associate Professor and the Director of the Information Laboratory (InfoLAB) at the Computer Science Department and a Research Area Director at the NSF's Integrated Media Systems Center (IMSC) at the University of Southern California. He is also the CTO of Geosemble Technologies. He received his M.S. and Ph.D. degrees in Computer Science from the University of Southern California in May 1993 and August 1996, respectively. He has a B.S. degree in Computer Engineering from Sharif University of Technology, Iran and has published two books and more than one hundred articles, book chapters, and conference papers in the areas of databases and multimedia. Dr. Shahabi's current research interests include Peer-to-Peer Systems, Streaming Architectures, Geospatial Data Integration and Multidimensional Data Analysis. He is currently an associate editor of the IEEE Transactions on Parallel and Distributed Systems (TPDS) and is on the editorial board of ACM Computers in Entertainment magazine. He is also the program committee chair of ICDE NetDB 2005 and ACM GIS 2005, and serves on many conference program committees such as IEEE ICDE 2006, ACM CIKM 2005, SSTD 2005 and ACM SIGMOD 2004.

Dr. Shahabi is the recipient of the 2002 National Science Foundation CAREER Award and the 2003 Presidential Early Career Awards for Scientists and Engineers (PECASE). He also received an award from the Okawa Foundations in 2001.