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Ranking of Information in Intelligent Transportation Systems

Thursday – Nov. 10, 2011
4:00 – 5:00 pm
Refreshments available at 3:30 pm

Location:
Transportation Center
Chambers Hall Lower Level, 600 Foster St., Evanston

Abstract: We envision an environment where travelers and billions of sensors embedded in the infrastructure, in vehicles, and in portable devices, will generate vast amounts of data whose interpretation will be exploited to transform mobility. However, the large amounts of data can overwhelm humans as well as resources such as wireless bandwidth. To cope, we propose to use a fundamental operation in Computer Science, namely information ranking. Ranking is used, for example, in Google searches, caching, and sorting. In this talk I will present ranking technology that will enable classes of novel real-time applications. These include data dissemination in vehicular networks, safety, and parking.

Bio: Ouri Wolfson’s is the Richard and Loan Hill Professor of Computer Science at the University of Illinois at Chicago, and an Affiliate Professor in the Department of Computer Science at the University of Illinois at Urbana Champaign. He is the sole founder of Mobitrac, a venture-funded high-tech startup that was acquired by Fluensee Co. in 2006.

Ouri Wolfson authored over 180 publications, and holds seven patents. He is a Fellow of the Association of Computing Machinery, a Fellow of the American Association for the Advancement of Science (AAAS), a University of Illinois Scholar for 2009, and serves on the editorial boards of several journals. He co-authored three award winning papers, served as a Distinguished Lecturer for the Association of Computing Machinery during 2001-2003, and participated in numerous conferences as a keynote speaker, general chairman, program committee chairman or member, tutorial presenter, session chairman, and panelist. Most recently he was the keynote speaker at the Mobilware 2010 Conference, and the general chair of the 17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2009). His research has been funded by the National Science Foundation (NSF), Air Force Office of Scientific Research (AFOSR), Defense Advanced Research Projects Agency (DARPA), NATO, US Army, NASA, the New York State Science and Technology Foundation, Hughes Research Laboratories, Informix Co., Accenture Co., and Hitachi Co. He is the Principal Investigator on a 2006 $3.1M NSF grant to establish a Ph.D. program in the new discipline of Computational Transportation Science.

Wolfson’s main research interests are in database systems, distributed systems, and mobile/pervasive computing. He holds a PhD in Computer Science from New York University. Before joining the University of Illinois he has been on the computer science faculty at the Technion, Columbia University, and a Member of Technical Staff at Bell Labs.