

Welcome

Seminar Series of the Department of Computer Science Electrical Engineering

Presents

Ontology Summarization and Evaluation on the Semantic Web

November 2, 2007. Time 2:00-3:00PM. FH 557.



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Abstract

The Internet has made finding information easy in principle. In practice, the sheer volume and heterogeneity of data make it challenging to find relevant information. As originally envisioned by Tim Berners-Lee, the Semantic Web promises to bridge this gap and usher in a new era of intelligent information access. The success of the Semantic Web hinges on the ability to formalize distributed knowledge in terms of a varied set of ontologies. The talk will begin with an introduction to the Semantic Web. This will be followed by the presentation of recent projects for distributed systems and biomedical applications. In particular, a comprehensive approach for ontology summarization and evaluation by considering structure, semantics, and domain of ontologies will be presented. Formal definitions of the individual metrics that constitute the approach shall be specified, and synthesized into an integrated metric. Its effectiveness shall be evaluated by presenting analytical results for multiple ontologies.

Bio: Dr. Yugyung Lee is an associate professor in the Dept. of Computer Sc. Elec. Eng. at UMKC. She received her BS from the University of Washington in 1990 and her PhD from the New Jersey Institute of Technology in 1997. Her research has been funded by the National Science Foundation, the University of Missouri Research Board, Mid America Heart institute, Children's Mercy hospital and Heartlab. She has published over 50 technical papers in areas including knowledge representation and reasoning, Semantic Web and ontologies, medical informatics, distributed systems and computing.

Bio: Sourish Dasgupta is Dr. Lee's Ph.D. student. He received his Bachelor of Information Technology degree from Manipal Academy of Higher Education and Master of Computer Application degree from West Bengal University of Technology in 2003 and 2006, respectively.