

# TAKE HOME ASSIGNMENT#4

Due Date: December 8, 2004 (4x200=800 points)  
CS 6/75995 ST: INTERNET-BASED APPLICATIONS

Fall 2004, Department of Computer Science, Kent State University

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1. (Inference in Semantic Web) (a) The semantic email system described by McDowell, Etzioni et. Al [F04-SEM-01] has discussed two types of decision models L-SEP and D-SEP. Explain the advantages and disadvantages of the two. (b) Discuss the relative advantage and disadvantage of placing the Manager in Originator's computer versus on a separate server.
2. (Example of Semantic Web) Explain the vision of a future companion web-site (Fig-6) presented by the Authors T. Miles-Board, C. Bailey, W. Hall, L. Carr, [F04-SEM-03]. What specific advantages it will have? Do you have any suggestion for its improvement?
3. (Representation in Semantic Web) Explain what are the types/classes of nodes and relationship maintained by the semantic web in ActiveSpace proposed by Schraefel, Shadbolt, et. Al. maintains. [F04-SEM-04]. Propose and explain three new interesting queries (not given by the authors) that you can think it can answer.
4. (Search in Semantic Web) Explain the concept of Hybrid Spread Activation used in the semantic web search mechanism proposed by the Authors Rocha, Schwabe, et. al. [F04-SEM-05].