

CSC 525: Artificial Intelligence  
Due Date: Friday, April 28 (email submission)

### Term Paper Assignment

Note: For graduate students only

Research one of the following topics and write a term paper. The length of your paper should be at least 4 pages not including a cover page or bibliography page. There is no maximum length. Your paper must include at least 5 references with at least 3 references coming from book (including conference proceedings) or journal sources (articles found on line is acceptable). If you need help finding references, ask.

Topics:

- 1) Provide a history of medical diagnostic systems and provide a comparison and analysis of at least 5 medical diagnostic systems including specific types of problems solved, types of control and representation and performance (accuracy).
- 2) Investigate autonomous vehicles and select one (or more) to describe in detail. What type of vehicle is it, how does it work, what types of AI are used, and how well does it work?
- 3) Explore the semantic web and the work on ontologies. What are they? Why are the two linked? Provide some examples or description of available ontologies on the semantic web and how they are used.
- 4) Text mining has become a significant facet in both natural language processing and the semantic web. What is text mining? How does it work? What challenges are there? What successes have we seen in the last 10 years?

If you would like to pursue a different topic, please discuss it with your instructor.