CS 395T: Object Recognition

Guidelines for project papers

Papers are due Friday May 4. Please submit both as hardcopy and via email. Late papers will not be accepted, so please plan ahead.

As with the proposals, you and your partner should submit one paper together, and you should both understand and agree with everything described in it. The content of the project paper should address all of the following in detail:

- **Abstract.** Summarize the problem and main idea of the project. Include a very brief description of the main result.

- **Background and related work**. Provide a thorough description of the background material. Compare and contrast the most related work with your approach. Depending on your project choice, the relevant work is not necessarily limited to papers on our syllabus. This is an important part of the write-up; please include all relevant details. A well-written related work section for this project will likely require at least 1.5 pages.

- **Technical approach.** What representations and algorithms did you explore? Describe existing techniques you employed, and/or any new ideas you have proposed. Describe the method's input and output clearly, and directly state any assumptions you have made. The description of technical details should be self-contained, and essentially should not require referencing outside sources for your points to be clear. Give enough detail that another student in our class would be able to read your paper and implement your approach, with confidence that he/she was following your procedure very closely.

- **Experimental results.** What experiments did you run to evaluate the idea? What is the main purpose of each experiment, and what can you conclude from the results? Can you make any comparisons with alternative approaches? Provide figures and examples as appropriate. Also comment briefly on what software, libraries, datasets, etc. you used. The analysis and your interpretation of the results are most important for this part of the paper. Be sure to answer not only what you did, but also why, and what the outcomes indicate.

- **Conclusions.** Summarize your approach and experimental findings.

- **Future work.** What are natural next steps if you were to proceed along this direction of research? What questions are not fully answered by your experiments?

The proposal, presentation, and paper together count for 40% of the overall course grade. Presentations and papers will be evaluated on the following aspects:

- Organization and clarity
- Experimental design
- Analysis and discussion
- Coverage of related work
- Creativity