CS 4/791Y Mathematical Methods for Computer Vision

Project Outline

The goal of the project outline is to specify a plan of work. It should contain the following sections:

1. An introductory section which should contain a description of the problem, how you are going to solve it, and how is your solution different from existing approaches.

2. A section on experimental design. This should describe what you intend to do, what image data you will use, and how you will evaluate the results.

3. A section on project plan. This should include an itemized list of steps (with timelines) that you intend to take to complete the project.

Weekly Reports

Each week, you are required to turn in a report of your project progress (email is OK). Your report should address the following: (1) what tasks you completed over the past week, (2) how are these tasks related to the specific goals and objectives from your project outline (very important!), and (3) what you plan to do in the following week.

Interim Report

You should turn in your interim report by December 1. By that time, you should have produced some preliminary results and also have a better idea of what else needs to be done and how. Your interim report should include the following items:

• An overview of the problem, what has been done up to this point, and what remains to be done.

• Describe in detail what image data you have used in your experiments as well as what experiments you have performed so far.

• Include any preliminary results that you might have obtained. Include a discussion based on your preliminary results.

• Discuss in detail the tasks to be completed over the remaining weeks of the project.

Final Project Report

A version of the final report MUST be handed in on December 15. In some cases, an extension may be given for a report addendum that includes some new and exciting results. The final report should include a title, an abstract, an introduction, the body of the report, and a conclusion.

The body of the report for the project should contain three main sections: a review of the project topic, a discussion of your implementation, a description of the experiments that you conducted, and a discussion of the results obtained.

In addition, a manual page documentation for your program and a listing of your program should be

included as appendices. Make sure that your program is well commented and that the documentation page contains sufficient details about the programs operation and parameters. In summary, the final report should contain the following:

- A one paragraph abstract outlining what the project is and what was achieved.
- A description of your approach (i.e., lay out all the work you have accomplished in a logical sequence).
- A description of the experiments that were conducted
- A brief description of any programs that you developed.
- A section on the results and observations from your experiments. Discuss the advantages and disadvantages of your solution.
- A conclusion, summarizing the achievements of the project and suggesting future work.
- A listing of your program
- A one page documentation for your program.

Important comments

• Deadlines are hard deadlines! You must hand in what you have on time even if it is not complete.

• It is best to start early and to finish early. It will probably be hard to impossible to finish everything at the last minute.

Important Deadlines

- **Project Outline**: 11/3/03
- *Weekly Report*: 11/10/03
- *Weekly Report*: 11/17/03
- *Weekly Report*: 11/24/03
- **Interim Report**: 12/1/03
- *Weekly Report*: 12/8/03
- **Final Report:** 12/15/03
- **Final Project Presentation**: 12/15/03 and 12/16/03