Pattern Recognition Fall 2010

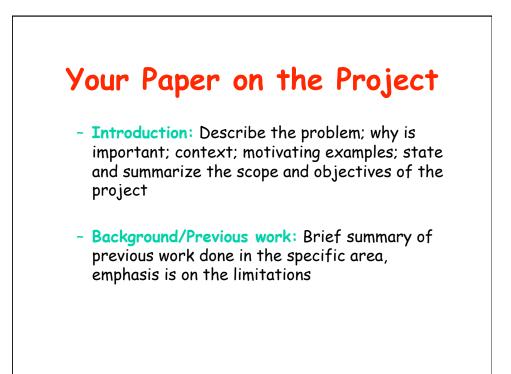
Project: Proposal, Presentation, and Paper

Project

- An application research project: The project demonstrates the application of some techniques discussed in class in an application domain (e.g., text mining, bioinformatics, computer vision, image processing, artificial intelligence etc.). Properties, drawbacks, advantages of the used techniques are analyzed within the context of the explored application domain.
- A theoretical or methodological research project: A study of different classes of models and approaches; proving either theoretically or experimentally properties of known algorithms; designing a new approach.

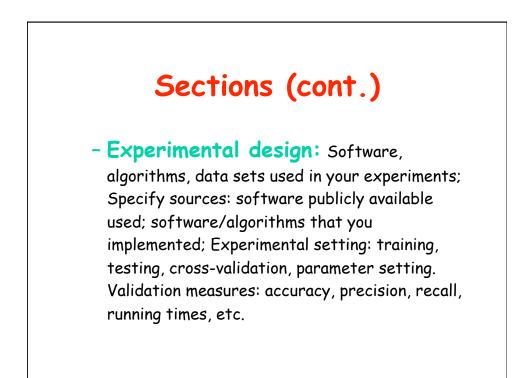
Your Paper on the Project

- Should have the structure of a conference paper;
- Sections:
 - Introduction
 - Background/Previous work
 - Your Approach
 - Experimental Design
 - Experimental Results
 - Analysis of the Results
 - Conclusion and Future Work



Sections (cont.)

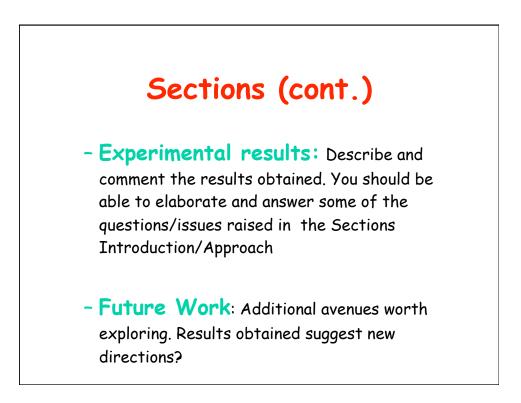
- Your Approach: Your point of view of the problem; Scope and objectives of the project; Your effort: Proposing a new approach? Comparing existing approaches in terms of... accuracy, efficiency...? Proposing an analysis to achieve a better understanding?



Sections (cont.)

- Experimental design (cont.): If you

compare running times of different algorithms, it's important to give the specifics of the machine you used. You need to provide the details necessary to reproduce the results obtained. Do **not** write the steps to install the software you used, and similar system issues.



The Whole Paper

- Your approach/objective + Experimental Design/Results is the core of the paper;
- > Well organized;
- > Well written;
- > Ideas are clearly stated;
- > Concepts are formally stated;
- Correctness;
- Be precise and concise;
- Max 10 pages (including references).

Provide a hard-copy on the due date.