

Pattern Recognition Spring 2016

Project: Presentation and Paper

Presentation

- Each student has **6 minutes**
- Please practice your talk!
- The talk should be clear and well articulated
- Use your time wisely!

Presentation

- At most 5 slides:
 1. Project title and name(s)
 2. Problem definition
 3. Your Approach
 4. Experimental design
 5. Results/discussion

Presentation

- Email your slides to me (both PDF and ppt):
- Students presenting on May 2nd:
 - DUE: **Sunday May 1st by midnight**
- Students presenting on May 9:
 - DUE: **Sunday May 8 by midnight**

Your Paper on the Project

Requirements:

- Must have the structure of a conference paper;
- Must be written in **LaTeX**
- Length: **5 pages (single column, 11+ pt) + references** (if necessary add figures/results in an Appendix at the end)
- Email me the code that you wrote for the project
- Projects with 2 students: specify in the paper **who did what**
- **Hard copy due: May 9 in Class**

Your Paper on the Project

- Should have the structure of a conference paper;
- Sections:
 - **Introduction**
 - **Background/Previous work**
 - **Your Approach (what did you do?)**
 - **Experimental Design**
 - **Experimental Results**
 - **Analysis of the Results**
 - **Conclusion and Future Work**

Your Paper on the Project

- **Introduction:** Describe the problem; why is important; context; motivating examples; state and summarize the scope and objectives of the project
- **Background/Previous work:** Brief summary of previous work done in the specific area, emphasis is on the limitations; **use this section to demonstrate the relevance of the problem you want to work on.**

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:** Software, algorithms, data sets used in your experiments; Specify sources: software publicly available used; software/algorithms that you implemented; Experimental setting: training, testing, cross-validation, parameter setting. Validation measures: accuracy, precision, recall, running times, etc.

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.

Sections (cont.)

- **Experimental results:** Describe and comment the results obtained. You should be able to elaborate and answer the questions/issues raised in the Sections Introduction/Approach
- **Future Work:** Additional avenues worth exploring. Results obtained suggest new directions?

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 5 pages (+ references);
- **MUST BE WRITTEN** using Latex
- **Provide a hard-copy on the due date.**

Project and Paper

- Don't forget to give a meaningful **title** to your project and paper!!!

Code

- Each project should involve some code writing.
- You are required to turn in your code as well to me.
- You can use Weka, or other tools, e.g. for comparison purposes. **BUT Weka (or similar tools) should NOT be the focus of your project!**