

COMP 5422 PROJECT

Due date: [Week 14 \(April 9, 2012\)](#)

Goals

1. To help the students better understand the contents learned in the lectures.
2. Practice and apply the techniques learned in the class to a real context of a project.

Group project

Each group will have **5 members**. As a group work, you need to make good communication and collaboration with your partners to successfully complete the project.

Topics:

Here are some possible topics (please revise the title to fit better your project):

1. Audio compression
2. Image compression
3. Video compression
4. Object tracking
5. Image interpolation
6. Video super-resolution
7. Face recognition
8. Image quality assessment
9. Electronic healthcare

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[You are strongly encouraged to propose project topics that you have interest.](#) If you have ideas, we can discuss them in the lab time.

Please let me know your project topic by [week 7](#).

Requirements

1. A project **report** must be submitted. The report should include
 - **Title and Abstract**
 - **Introduction**
 - **Methodology**
 - **Experimental results**
 - **Conclusion**
 - **> 5 references**
2. Length of the report

A4 paper, double-spaced, with 12-fontsize and 1-inch margin.

No particular requirement of the report length. The key point is that it should be clear and correct. I think 15 ~ 25 pages are fine.
3. The argument should be clearly presented, the content should be organized and support the argument.
4. **Matlab** is the preferred programming tool. You can also choose to use other programming language. Please submit all the **codes**.

Evaluation (35%)

- *30% ---- project report*

The report will be marked according to the argument, content, and style (including language). The report is supposed to be read and agreed by all of the members in each group when submitted, and the members in the same group will therefore get the same mark on this part.
- *5% ---- members evaluation*

This part is to encourage group members to contribute to the project more sufficiently. At the end of the course, each member **must** evaluate the other members of the group in the accordance with their work and contribution. You may give the evaluation by hand or by e-mail to the instructor with a 0 to 5 mark to each of the other group members. This evaluation will make a difference in the individual score of the group project.
- **Important:**

If most of the group members think that one team member contributes nearly nothing to the project (i.e., he/she does not join the group discussion, does not do the tasks assigned to him/her), then this member will **fail** in this project, i.e., he/she will get 0 out of the 35 points.