

Guidelines for the group project

CSE/ECE 478, Monsoon 2020

TIMELINE

- **Final project list announcement: 12th October**
 - **Deadline for submitting project proposal: 18th October, 11.55 PM**
 - **Mid Evaluation: 31st October**
 - **Final Evaluation: 19th - 25th November**
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STEP-2: Submit Project Proposal

Once project is finalized, a project proposal needs to be submitted. The project proposal must include the following items – use images whenever possible:

1. Project Id and title
2. Github link (see instructions for this in the next step)
3. Team Members
4. Main goal(s) of the project
5. Problem definition (What is the problem? How things will be done ?)
6. Results of the project (What will be done? What is the expected final result ?)
7. What are the project milestones and expected timeline ?
8. Is there a dataset you need ? How do you plan to get it ?

We expect all members of the team to have read the paper once, even if you did not understand all parts completely.

Deadline for submitting project proposal: 18 October, 11.55 PM

Your respective TA would have a meeting with the team to give his feedback.

NOTE: Based on the contents of the proposal, your project plan may need to be modified. We will contact your team coordinator.

STEP-4: Manage your Project

- We will use github classrooms for the purpose of this project. TAs will make the classrooms for you.
- The code for the project will need to be regularly uploaded to github. Make sure to create a project and add yourselves as individual contributors to the projects. Also add your assigned TA to the repository. **IMPORTANT: Add github repository link to project proposal.**
- To avoid running into github's size limits, ensure you upload only code and other documents (project proposal, final report) and NOT data (images). However, make sure that you upload them in either OneDrive or Google Drive, and share the link in the README of github.
- Periodically backup/update your code on github – we will be checking for updates and grading based on them.

- Contributions of each member will be seen by commits to the repository, so use your own GitHub accounts to contribute.
- Also having commit clustered around a single day will look bad.

STEP-5: Project Progress Review

- TAs will review the progress of your project in a mid-evaluation.
- Details will be announced.

STEP-6: Submission and Final Presentation

You will have 3 deliverables.

- DELIVERABLE-1: Project Presentation (12+3=15 minutes)
 - Powerpoint + demo (where appropriate)
 - Leave at least 3 minutes for questions from the audience.
 - TAs/Instructors may ask detailed questions, so everyone in the team should be familiar with the complete project, not just the part they worked on !
 - **All team members must be present**
- DELIVERABLE-2: Github repo
 - Along with your code, add a README.md markdown file (<https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet>) with
 - instructions on how to run your code and replicate the results.
 - Test your code on a machine different from that used during project development. Include any missing dependencies and how to resolve them in the README.
 - Link to input images: Package all images used for training/input to your code into a zip file. Upload this zip file and provide a link to this zip file.
 - Link to output images: Package all images obtained as output from your code into a zip file. Upload this zip file and provide a link to this zip file.
 - Use a sensible format for input and output filenames (e.g. On running code on input-0001.png, output should be output-0001.png). Alternately, you can include a script which loops through all your input images.
 - NOTE: Do NOT upload the input/output image zip files on your GitHub repo. Upload them elsewhere (Google Drive) and add their links to README
 - **Your project presentation should also be present in the GitHub repo -- we will check the timestamp, so make sure you upload the pptx/pdf files within an hour of your presentation.**
- Scoring Rubric
 - [Code] Workload, completeness and novelty: 30%
 - Viva: 40%
 - Presentation: 30%

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- In any case, if you wish to have some feedback about the triviality or difficulty of your project, please speak to TAs, instructors.

- **Your project work may contribute to your thesis/honors project, but the work you submit for this course must be done within the project submission deadline. It should be a separate deliverable. You may need your Honors/primary advisor's approval for this.**
- You may use MATLAB/C/C++/Java/Python + any packages (OpenCV,ITK, etc) for your project. But merely invoking calls to someone else's software is not substance enough. **You should have your own non-trivial coding component.**
- If software for the research paper you implement is already available, you should use it only for comparison sake. You will be expected to implement the paper on your own. Please discuss with TAs/instructors if you need any clarifications for your specific case.
- If your project is novel/new and you are planning to extend it towards a conference submission after the course is over, you must ensure that a significant portion is completed by project submission deadline time.