

CS6301 Introduction to Robot Manipulation and Navigation Project Mid-term Report

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The project mid-term report should be prepared using the the ICRA double column latex format. A useful online LaTeX tool is Overleaf <https://www.overleaf.com/>. We have the ICRA latex template accessible here via overleaf: <https://www.overleaf.com/read/rwmhwnwjkrmc>. You can download a copy of the template or make a copy in overleaf for your own project, and then edit it. If you are already using this template for the project proposal, you can extend the project proposal for this mid-term report.

In this project mid-term report, please describe the following items according to your progress:

- **Title.** The title of your project.
- **Team Members.** List the names of the team members.
- **Abstract.** Give an overview of the project.
- **Introduction.** Describe the motivation of the project, i.e., why do you want to work on this problem. Then describe an overview of the framework/method/system.
- **Related Work.** Discuss the related work of your project.
- **Method.** Describe your solution for the project. For example, describe each component of the framework in details. Try to use figures to illustrate the method instead of only using text. "A picture is worth a thousand words".
- **Experiments.** In this section, you can first describe the simulation environments or datasets and evaluation metrics. Then describe what experiments you have done so far. If there are some experimental results to show, add them to the report. You can use figures and plots to show these results.
- **Next Steps.** Describe what are the next steps for the project.
- **References.** Cite related works in the report.

Evaluation criteria: The evaluation of the mid-term report will be focused on the introduction, the method and the experimental setup (simulation environments and evaluation metrics). So try to provide details on these parts. It is okay if there is no much experimental result in this mid-term report. In this case, you shall write down the next steps clearly.

Minimum page requirement: **3 pages**. The report should be at least 3 pages with the ICRA format (excluding references, i.e., without references, the content should be at least 3 pages). You can go beyond 3 pages, but make sure it is less than 6 pages (excluding references).

An example ICRA paper: you can check the structure of the following paper for reference https://yuxng.github.io/Papers/2020/meng_icra20.pdf.