

How to Prepare for Paper Discussion Lectures?

IE 606: Large Scale Optimization

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When you are preparing your presentations for the paper discussion lectures, there are a couple of points that you need to keep in mind:

- ❑ Your classmates are supposed to read the papers. Each one of them will prepare questions and I will try to encourage that everyone asks at least one question.
- ❑ You do not have to prepare a computer presentation. However, it usually helps to have slides so that you can save time for crucial points.
- ❑ Small numerical examples always help to explain the main ideas. It would be best if you prepare some Octave/MATLAB scripts. If you want your classmates to go through those scripts, then send those scripts to them before the class.

Here is a rough outline that might be of use when you are preparing a presentation:

- **Motivation:** The subject of the paper; the proposed approach; the major contributions.
 - **Problem Statement/Hypotheses:** Mathematical model or theory; related problems or other similar techniques; approximations, alternatives, relaxations.
 - **Proposed Approach:** The details of the authors' proposal; main results.
 - **Numerical Examples/Results:** Computational study in the paper; some illustrative examples; discussion of the numerical experiments.
 - **Conclusion/Critique:** Concluding remarks and future research; your own assessment of pros and cons of the paper.
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