

Convex Optimization II

Term Project

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1400-2

TERM PROJECT

- **Topic:**

- ▶ You can work on any problem that is related to developing optimization techniques, applying them in existing problems or your own research area.
- ▶ It should involve some novelty such as further analysis, simulation, or experimentation.

- **Group:** At most two students per group

- **Grade:** 20% of total grade + 5% bonus

PROJECT TIME LINE

Date	Items to be submitted	Percentage
Friday, May 6th	Project proposal* (1-2 pages)	3%
Tuesday, May 31st	Problem formulation and preliminary results	—
Tuesday, June 8th	Final project report** (4-6 pages)	12%
TBD	Project presentation	5%

PROJECT TIME LINE

- *Proposal

- ▶ includes background, related work, problems to solve or questions to answer (i.e., objectives), topic significance, and your methodology and plan.
- ▶ If the project topic is directly related to your research, please obtain permission from your supervisor beforehand and mention it in the proposal.
- ▶ You cannot choose the same topic for project(s) in other courses.

- **Report

- ▶ includes Introduction (including related work, motivation, and contribution), System Model (assumptions, problem formulation, and analytical results), Performance Evaluation, and Conclusions.
- ▶ double-column, single space, 10 pt, 4–6 pages.
- ▶ LaTeX IEEEtran format is preferred.

PROJECT PRESENTATION

- Each group is required to present the project during class.
- What we expect from the presentation.
 - ▶ Describe the problem and related work; Explain the motivations of your work.
 - ▶ Tell us your own contributions; Highlights of the most interesting parts.
 - ▶ Do not tell us all the details; do not expect us to remember a list of notations (unless you have a good way of organizing and reminding us in the presentation).
 - ▶ Keep the presentation concise, and to the point; Emphasize no more than three take-home messages at the beginning, in the middle, and at the end.
 - ▶ Respect the time; each presentation should be within 10 minutes plus 2 minutes Q&A.