

Outlines

due 11:50PM, Friday 1/31/2025

- I. **Headline: 1. title, 2. team members, 3. tasks assignment**
- II. **Introduction: 1. motivation, 2. previous works, 3. intended contributions (wish list), 4. organization of the paper**
- III. **Statement of the Problem**
 - I. **Primal formulation**
 - II. **Dual formulation**
 - III. **KKT conditions**
- IV. **Intended Approaches**
- V. **Conclusion: conjectured results, conclusion, and possible future works**
- VI. **References: 5+ references (most relevant publications even the proposed problem is quite novel)**

Note that the outlines take no more than one page.

The purpose of the outlines is to formalize the process of the project. You may change the direction of the project later as the project progresses.

Red font items: grade by completion. Use one sentence on each (sub)item (references may take more lines).

Black font items: a placeholder to be filled in the project report.