

1. Instruction:

You should do an individual project by yourself.

2. Reports:

The first class project report is due on March 18, 2008. You can either send me a hard copy or email me the pdf file. Your report should include the following components:

- a. A concise description of the problem or application.
- b. A summary of previous solutions to the problem. Your report should have at least a few references to papers in the literature that you have read to help you implement your project.
- c. A detailed description of your solution to the problem.
- d. Spectral estimation results.
- e. Discussion and analysis of your results and how your solution differs from previous work.
- f. Ideas for how your project could be extended or improved if you had more time.
- g. You may include the codes you wrote in the appendices.
- h. Prepare a 10-minute presentation on the project.

3. Focus:

Nonparametric spectral estimation methods, parameter estimation fundamentals, array beamforming techniques.