

From Sensors to Scientists: *Applications of Sensor Networks*
Fall 2006
cs651

Guidelines for project proposal presentations Oct 11, Oct 16:

The project proposal will be 15 minutes each, not including Q & A. Please bring enough copies of your written proposal for everybody in the class.

Be sure to cover the following points in your talk; we will use this as a checklist during your presentation. The suggested # of slides for each section is listed in parenthesis.

- I. Application and Problem (2-3)
 1. The specific application scenario
 2. The constraints of this application
 3. The obvious solution(s) to this problem using current technology
 4. Why the obvious solution(s) is(are) obviously not good enough
- II. Literature Review (1)
 1. In general, what kinds of problems or solutions might be related
 2. A brief summary of each class of related problem or solution
 3. For each, a description of which constraint that solution does not satisfy
- III. System Proposal (about 6)
 1. An overview of how the solution works (1 slide)
 2. Your hardware, network architecture, data flow model, and deployment procedure (1 slide)
 3. An enumeration of each of the new components (1 slide each)
 4. An analysis of the tradeoffs of this design in terms of system constraints
- IV. Experimental Setup (1)
 1. A complete description the scenario/simulation that you will be using
 2. How you will collect the evaluation metrics, uncontrolled variables, and ground truth
 3. An enumeration of how many times you will run the experiment, and which independent variable will be changed in each run
- V. Experimental Results (2-4)
 1. A summary of what you expect your experiments to show, in general
 2. Graphs showing the hypothesized data for each set of experimental runs
 3. Explanations of why the data is hypothesized to be that way
- VI. Implementation plan (1)
 1. A timeline for when each piece will be implemented
 2. Open questions and unknowns (this is the most important part of this presentation)