

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

Grading criteria for final project presentations (Nov 29 and Dec 4) and reports (due Dec 6):

The final presentations will be 15 minutes each, not including Q & A. Timing will be strictly enforced. Final reports should be 8-16 pages in ACM format. Quality is expected to be comparable to a workshop paper and presentation. Distribute copies of your latest project report during your presentation.

Be sure to cover the following points in both your presentation and report; it will be used as grading criteria. Every inner bullet is weighted equally. The #slides and #pages listed are recommendations.

- I. Application and Problem (2 slides, 1 page)
 - The specific application scenario
 - The constraints of this application
 - The obvious solution(s) to this problem using current technology
 - Why the obvious solution(s) is(are) obviously not good enough
- II. Literature Review (1 slide, 0.5-1 page)
 - In general, what kinds of problems or solutions might be related
 - A brief summary of each class of related problem or solution
 - For each, a description of which constraint that solution does not satisfy
- III. System Proposal (about 5 slides, 2 pages)
 - An overview of how the solution works
 - Your hardware, network architecture, data flow model, and deployment procedure
 - An enumeration of each of the new components
 - An analysis of the tradeoffs of this design in terms of system constraints
- IV. Experimental Setup (1-2 slides, 1 page)
 - A complete description of the scenario/simulation that you used
 - How you collected the evaluation metrics, uncontrolled variables, and ground truth
 - An enumeration of how many times you ran the experiment, and which independent variable changed in each run
- V. Experimental Results (2-4 slides, 2 pages)
 - A summary of what your experiments show, in general
 - Graphs showing the observed results for each set of experimental runs
 - Explanations of the data and how it matches or disagrees with your hypothesis
- VI. Conclusion (1 slide, 0.5 page)
 - Statement of why this study is an important contribution to the field
 - Open questions, unknowns, and future work