Literature Review

Part 1) Select one of the Ideas from Homework 1 to serve as the topic of your research project. I strongly recommend that you take the feedback from your peers and me into consideration when you make your selection. While you are not committed to keeping this selection as your final project topic, you will find the process much easier if you do. Specifically, you will need to perform a literature review for the final project. If the topic selected for this assignment is the same as the final project, this homework will satisfy that requirement. If you select a different topic, you will need to do an additional literature review.

Part 2) Identify 10 published academic articles that are most relevant to your research topic. At least 5 of these should have been published in the last 5 years. (Publication date of 2008-2012). Note: you probably will have to read or at least scan many more than 10 papers to identify those that are most relevant to your work.

Google scholar and the ACM digital archive are good places to start your search. From there, follow references, look for additional work by the same authors, and additional work at similar venues (journal or conference).

Part 3) Summarize the 10 papers. What is the current state-of-the-art in your topic? What are the major problems that have not been sufficiently addressed or solved? What are the most popular/common/successful approaches that have been applied to the problem? Are there common, publicly available datasets that you can use for your research? Compare and contrast the most successful approaches. Identify the work that your work will most directly build on. It will be difficult to accomplish this summary in less than 3 pages. A summary of 4-6 pages is more expected.

Part 4) [Optional, Ungraded but helpful] Think about the data that your project will use. Is it publicly available? Do you need to collect it yourself? Attach a paragraph or so describing the data requirements of your project.