**CS6068 – Fall 2014 Final Project Report Requirements**

Your final project report is due on Blackboard on December 10 and should be submitted as a PDF file. Your report should contain 6-10 pages and divided into the following sections.

1) ***Introduction:*** Provide a description and overview of your project application, why it was worth studying, and an overview of its computational requirements including an analysis of its time and space complexity. Include a summary of what you have accomplished for the project. If possible, include a brief description and comparison of work done by other researchers on performance analysis or parallelization of your application or related applications. Provide appropriate citations. (1-2 pages)

2) ***Design and Optimization Approach:*** Provide a description of your design of your application software, including a high level diagram of the flow of the application, with more detail on the potential parallel portions of the code where most of the time is spent. Give a description of your approach to optimizing the application; identify the parallelism you applied in your approach, and the expected performance improvements in your approach. Discuss any of the technical challenges in performing your project work. (1-2 pages)

3) ***Application Performance Analysis and Project Results:*** Include the system requirements you used for your analysis. Include a summary of the parallel performance profiling results and any additional performance analysis you performed.
Provide an explanation of your results. Provide suggestions for additional changes and future potential improvements. (1-2 pages)

4) ***Division of Work***: Describe and summarize the responsibilities and project work accomplishments for each of your team members. Each team member should submit a self-assessment paragraph describing details of his or her contribution to the project. (1-2 pages)

5) ***Bibliography:*** Cite papers or articles describing or related to your application, related parallelization or optimization efforts or performance studies. References from 2-10 is appropriate. (1 page)

6) ***Code Appendix:*** Provide the code you developed for the project. You may provide a link to a public code repository.

7) ***Presentation Slides:*** Provide a copy of the slides you used for your final project presentation.


Notes on Plagiarism: Your report should be written in your own words. Authors should be cited appropriately if you use the words, codes, or ideas of others in your report.