ECE 647
Performance Modeling of Computer Communication Networks
Instructions for the Paper Summary

Grade: 15% of the total score of the class

Goal: to study how convex optimization, Markov decision program, or competitive online algorithms are used in a student-selected research area.

Important Deadlines:
1. Submission of the plan for paper summary: due February 2nd, 2015 in class
2. Submission of the paper summary: due March 23rd, 2015 in class

Instructions:

This is an individual project. Collaboration is NOT allowed. Choose two or more related papers that you are interested in studying. You can choose these papers under the same category from the supplemental reading list. Alternatively, you are also welcomed to choose these papers from any area of interest. It is preferable that the paper summary topic will be the same as your final project topic.

You should then study these papers carefully, and answer the following questions:

- Summarize the main objectives and contributions of each paper (20%).
- Summarize the models, approaches, and main results of each paper (20%).
- Compare the strength and weakness of each paper (20%).
- Identify any potential extension and future work (20%).
- Fill in important missing steps in the derivations of each paper (20%).

Deliverables:

1. A plan for your paper summary is due February 2nd, 2015 in class. Your plan should be within 1 page. You should provide a list of papers that you plan to study and state clearly why they are of interest to you. You should also state what you will focus on and how you are going to compare the different approaches of the papers. I will give you feedbacks on your plan within two weeks. I may require you to change the list of papers if I find it to be necessary.

2. Your paper summary is due March 23rd, 2015 in class. Your paper summary should be 3-6 pages (in single-column, single-space) plus any extra pages that you will need in order to produce the important missing steps in the derivations of the papers.