# EEL 6871 - Autonomic Computing (Fall 2013)      Class Project

Assigned: **Oct 29th**

Paper & slot choice due: **Oct 31st**      Lecture presentation: **Nov 12th ~ Nov 16th**

Report due date: **Dec 11th**      Report presentation date: **Dec 14th**

This class project requires each student to present a recent paper on autonomic computing and submit a report that critically reviews the paper.

**Paper selection:** Each student selects his/her paper from papers from the 10th International Conference on Autonomic Computing (ICAC'13). The complete list of papers and the contents can be found here:

http://0b4af6cdc2f0c5998459-c0245c5c937c5dedcca3f1764ecc9b2f.r43.cf2.rackcdn.com/11783-icac13_full_proceedings.pdf

**Objective:** Each student must demonstrate mastery of fundamental autonomic computing concepts by identifying a paper that is relevant to autonomic computing, reading and understanding it, and presenting it during a lecture period. The student must also write a critical report of the paper including possible extensions to remedy limitations or extend benefits of ideas and techniques described in the article.

**Paper and presentation date selection:** This should be done by first browsing through the paper titles and selecting a few candidate papers, then reading their abstracts to select two or three candidates and then choosing the paper. Upon deciding on what paper to read the student must post the <u>full paper reference (title, authors, etc)</u> of his/her selection on the <u>discussion</u> forum in Sakai. He/she should also indicate in the same posting his/her selected presentation time slot. Papers will be presented in class on one of the following lecture dates: Nov 12, 13, 14 and 16 (Saturday). Students claim a time slot at the time they post their paper selection on the forum under the topic "Paper and presentation slot selection" after checking that the desired slot has not yet been claimed in a previous posting. <u>After such information has been posted on the public forum, the selected paper and time slot can not be chosen by any other student.</u> This will favor those who make selections early. **Paper selection must be done by midnight of Oct 31st. Each 50-minute presentation will take place in one the following slots:**

| Nov 12th | Nov 16th |
|---|---|
| 08:30 – 09:20 - Slot 1 | 09:00 – 09:50 - Slot 6 |
| 09:30 – 10:20 - Slot 2 | 10:00 – 10:50 - Slot 7 |
| | 11:00 – 11:50 - Slot 8 |
| | 13:00 – 13:50 - Slot 9 |
| Nov 14th | 14:00 – 14:50 - Slot 10 |
| 09:35 – 10:25 - Slot 5 | 15:00 – 15:50 - Slot 3 |
| | 16:00 – 16:50 - Slot 4 |

*Note:* the time slots are chosen based on the feedback from the doodle posted in the beginning of this semester. On Nov 16$^{th}$ Pizza will be provided for lunch.

*If you choose a time slot for your lecture presentation, you will use the same time slot for report presentation. For example, if your lecture presentation is in slot 3, then your final report presentation will also be in slot 3.*

**Lecture presentation:** A powerpoint presentation must be submitted to Sakai by **noon** of the day before your presentation takes place. It must include the following

1. Problem area (broad and setting the context/relation to the course)
2. Problem statement (specific and rigorous)
3. Paper approach
4. Novel idea/aspects of the approach
5. Evaluation/analysis of the approach (as done by the paper)
6. Experimental setup/results (if applicable)
7. Related work
8. Conclusions
9. Questions and issues you intend to pursue in your critique

The instructor will download the presentation to a laptop to be used by all presentations so it is critical that students post their presentations by noon of the day before the presentation. The laptop will be used for presentations so students need not bring their laptop.

**Report: The report is due Dec 11$^{th}$**. It must be submitted before midnight. It must be 6 pages long using 11-point Arial font, 1-inch margins. It must consist of the same sections as the list of items shown below for the report presentation. Of those items, the first three should take no more than 2 pages.

**Report presentation:** A powerpoint presentation must be submitted to Sakai by **noon** of the day before it takes place (**Dec 14$^{th}$**). It must include the following

1. Problem area (broad and setting the context/relation to the course)
2. Problem statement (specific and rigorous)
3. Paper approach
4. Evaluation/analysis of the approach (possibly extending/modifying the one in the paper)
5. Critique (based on the report)
   a. Relevance of paper to practice
   b. Soundness of problem(s) formulation and solution
   c. Soundness of evaluation/validation methods and results
   d. Completeness of comparison with related work
6. Possible improvements (highly valued by the instructor, particularly if demonstrated)

The TA will download the presentation to a laptop to be used by all presentations so it is required that students submit their presentations by noon of the day before the presentation. The laptop will be used for presentations so students need not bring their laptop. The presentation slots will be the same as for the paper presentation (i.e., when a student selects a slot, he/she will be selecting the same slot for both the report and paper presentations).

**Grading:**

**Lecture Presentation:**
Understanding of the paper problem: 20 points
Understanding of the solution: 20 points
Understanding of evaluation methodology: 20 points
Understanding paper's contribution in context of related work: 20 points
Quality of presentations: 20 points

**Report Presentation:**
Quality of presentations: 20 points
Quality of report and its content: 30 points
Quality of critique: 20 points
Improvements and extensions: 30 points