**SPRING 2013**

**EE 598: ELECTRICAL ENGINEERING RESEARCH SEMINAR**

"FOCUSED ON PARALLEL AND DISTRIBUTED COMPUTING"

Grading: CR/NC

Units: 1 unit for M.S. students; up to 2 units for Ph.D. students

**INSTRUCTOR: VIKTOR K. PRASANNA**

**SEMINAR SCHEDULE:** THURSDAYS, 2:00 - 3:00 PM

**LOCATION:** EEB-248

**DESCRIPTION:** Weekly seminars given by researchers in academia and industry including senior doctoral students in EE, CS and ISI covering current research related to parallel and distributed computation including parallel algorithms, high performance computing, scientific computation, application specific architectures, multi-core and many-core architectures and algorithms, application acceleration, reconfigurable computing systems, data intensive systems, Big Data and cloud computing.

**Prerequisite:** Students are expected to be familiar with basic concepts at the level of graduate level courses in Computer Engineering and Computer Science in some of these topic areas above. Ph.D. students in Electrical Engineering, Computer Engineering and Computer Science can automatically enroll. M.S. students can enroll only with permission of the instructor. To request permission send a brief mail to the instructor in text format with the subject field “EE 598”. The body of the mail (in text format) should include name, degree objective, courses taken at USC and grades obtained, prior educational background, and relevant research background, if any.

**Requirements for CR:**

1. Attending at least 10 seminars during the semester
   There will be a sign-in sheet and a sign-out sheet at every seminar. All students must sign-in (before 2:00pm) and sign-out (after 3:00pm). The sign-in sheet will not be available after 2:00pm, and the sign-out sheet will not be available before 3:00pm.
2. Submitting a written report for at least 5 seminars
   The written report for each seminar must be 1-page single line spaced format with font size of 12 (Times) or 11 (Arial) without any figures, tables, or graphs. The report must be submitted no later than 1 week after the corresponding seminar, and must be handed only to the instructor either on the seminar times or during office hours. Late reports will not be considered.
   The report must summarize student’s own understanding of the seminar, and should contain the following:
   - Your name and submission date [1 line]
   - Title of the seminar, name of the speaker, and seminar date [1 line]
   - Background of the work (e.g., applications, prior research, etc.) [1 paragraph]
   - Highlights of the approaches presented in the seminar [1-2 paragraphs]
   - Main results presented in the seminar [1-2 paragraphs]
   - Conclusion (your own conclusion and not what was given by the speaker) [1 paragraph]
   Reviewing papers related to the topic of the seminar, and incorporating relevant findings in the reports (e.g., in the conclusion section) is encouraged. In such cases, make sure to clearly indicate the reference(s) used to derive these conclusions.