EE382N, Spring 2018
Y.N.Patt, Instructor
TAs: Siavash Zangeneh, Ali Fakhrzadehgan
Course Syllabus (Topics covered, due dates)
January 17, 2018

Some of the Topics we hope to discuss:

1. Introduction and Focus:
2. ISA tradeoffs.
3. uarch tradeoffs.
4. System tradeoffs.
5. Single thread.
7. Compile-time optimizations.
8. Branch Prediction
9. Multiple threads.
10. Integer Arithmetic.
11. Floating Point Arithmetic.
13. Memory consistency.
15. RISC: A retrospective.
17. Some Current specific issues in Microarchitecture
19. My sense as to the critical requirements for the future.
20. One or two guest lectures from local industry
21. Last class meeting. The free for all.

Important dates:

Problem set 1a is due at the beginning of class, January 24.
Problem set 1b is due at the beginning of class, January 31.
Problem set 2 is due at the beginning of class, February 12.
Problem set 4 is due at the beginning of class, February 21.
Initial Design Reviews with each Project Team, March 1,2. (Problem set 5 due)
Written exam, (exam 1) in class, March 7.
March 12-17, no class. Spring break.
Oral exams (exam2) in EER 5.802, April 12,13.
No class, April 18.
Final project design reviews, May 3,4.
Final project report due in EER 5.802, 10pm, May 11.
Note: There will be no final exam in this course.