Instructor: S.-Y. Lee

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Class: MWF 9:00 - 9:50 a.m.  Broun Hall 113

Office Hours: MW 2:00 - 3:00 p.m. (or by appointment)

Prerequisite: ELEC6230, C programming (Unix)

Ref’s: High Performance Cluster Computing, Buyya,Prentice Hall, 1999
The Grid 2, Foster and Kesselman, Morgan Kaufmann, 2004
Sourcebook of Parallel Computing, Dongarra, Morgan Kaufmann, 2003
Parallel I/O for High Performance Computing, May, Morgan Kaufmann, 2001
Industrial Strength Parallel Computing, Koniges, Morgan Kaufmann, 2000
Parallel Computer Architecture, Culler and Singh, Morgan Kaufmann, 1999

Grading: Project 50 %
Midterm Exam 20 %
Final Exam 30 %

Project requirements include a set of presentations and the final report.
All presentations are to be prepared in the PPT format and will be graded.

Topics: Review on high performance computing systems
Cluster computing
Grid computing
Globus Toolkit
Data access
Programming environments
Scheduling/Load balancing
Performance analysis
Applications and Algorithms
Sensor Networks

For programming, refer to http://www.eng.auburn.edu/~sylee/ELEC7230.html.