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CCT Colloquium Series

Clouds and Multicore for Data Intensive Computing**Geoffrey Fox, Indiana University**

Professor, Computer Science, Informatics, and Physics

Johnston Hall 338
March 14, 2008 - 11:30 am**Abstract:**

We discuss the macroscopic and microscopic drivers for next generation grids. Clouds could support infrastructure at two to three orders of magnitude larger scale than conventional data centers. This will drive simple hardware and software architectures exploiting virtual machines and "too much computing". Namely that multicore chips will offer so much performance that we need not cobble together heterogeneous resources but rather can deploy simple powerful systems. Data analysis and data mining will be critical applications for both science and commodity applications. We study the parallelization of a class of data mining algorithms on current multicore systems and contrast programming models from MPI to MapReduce.

Speaker's Bio:

Geoffrey Fox received a Ph.D. in Theoretical Physics from Cambridge University and is now professor of Computer Science, Informatics, and Physics at Indiana University where he is director of the Community Grids Laboratory. He is chief technology officer for Anabas Inc. Dr. Fox previously held positions at Caltech, Syracuse University and Florida State University. He has supervised the PhD of 57 students and published over 550 papers in physics and computer science and currently works in applying computer science to Defense, Earthquake and Ice-sheet Science and Chemical Informatics. He is also involved in several projects to enhance the capabilities of Minority Serving Institutions.

