

CLS /CCI Spring 2009 Seminar Series

3/25/2009

4:00pm

Shishir Bharathi

University of Southern California

Location: North Decatur Building, Room 155

“Efficient data delivery for execution in Grids”

Abstract:

The execution of data intensive workflows in Grid environments involves the movement of several gigabytes of data. Strategies used to stage data in and out of compute resources may have a significant impact on the overall execution of workflows. My research focuses on identifying the execution time data management strategies that allow for the most efficient (in terms of reducing overall execution time) execution of a given scientific workflow.

In this talk, I will describe my work in understanding the data processing requirements of various scientific workflows and describe a framework that allows for the evaluation of the impact of different data staging strategies on the execution of these workflows. I will then focus on the execution of data intensive workflows on storage constrained resources and present the results of heuristics and genetic-algorithm based approaches that try to minimize workflow execution times while meeting storage limitations.



The Emory Center for Comprehensive Informatics fosters collaborative research and software development in high performance and grid computing, biomedical informatics, translational science and imaging informatics.

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