SPEAKER:

Dr. Jeremy Singer

School of Computing Science

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DATE:

Wednesday the 15th of June 2011

TIME:

15:15 - 16:15

LOCATION:

Heriot-Watt University, Earl Mountbatten Building; room 3.02

TITLE:

Auto-tuning MapReduce applications for multicores

ABSTRACT:

The success of Google's MapReduce parallel programming pattern has led to alternative implementations for various scenarios. In this talk we present MRJ, a MapReduce Java framework for multicore architectures. We also explore the significant impact that Java runtime garbage collection has on the performance and scalability of MRJ. We advocate the use of machine-learning based auto-tuning techniques to reduce the performance deficit caused by garbage collection.