UNIVERSITY OF SOUTH FLORIDA

Major Research Area Paper Presentation

G-SDBMS a GPU-based Streaming Database Management System
by
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For the Ph.D. degree in Computer Science & Engineering

This research introduces a GPU-based Streaming Database Management System (G-SDBMS) aiming at dealing with tasks that involve processing massive streaming data. Modern GPUs with general programming capabilities are perfectly qualified in such scenarios by offering the most cost-effective computing platform to catch up with the data streams. The keys to develop G-SDBMS are Concurrent Kernel Processing, Multi-query Network, and Continuous Data Input on GPUs.

August 23, 2019
9 AM
ENB 337

THE PUBLIC IS INVITED

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