CMPT 984 - G100 Special Topics in Databases, Data Mining, Computational Biology

Instructor(s): Tianzheng Wang

SFU Burnaby

Calendar Objective/Description:
None

Instructor's Objectives:
This is a seminar-style special topics course on the recent advances in the design and implementation of database systems. Specifically we focus on the impact of the changing underlying hardware on software (database management systems and related software primitives). Topics include database architecture and techniques in the context of manycore/multicore processors, persistent memory, flash memory, high-speed, low-latency networks (e.g., RDMA), programmable networks and hardware accelerators (e.g, FPGAs).

Prerequisites:
None

Topics:
- Database systems
- Persistent memory
- Storage systems
- Transaction processing
- Data analytics systems

Grading:
To be discussed in the first week of class.

Academic Honesty Statement::
Academic honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty will be handled in accordance with the SFU Academic Honesty and Student Conduct Policies (http://www.sfu.ca/policies/gazette/student.html).