CMPT 984 - G100 Spec. Top. Base-Mining-CMPT Bio

Instructor(s): Tianzheng Wang
SFU Burnaby

Calendar Objective/Description:
Spec. Top. Base-Mining-CMPT Bio

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 hardware and programming languages on 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), as well as new programming language features (e.g., coroutines).

Prerequisites:
see go.sfu.ca

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).