CMPT 982 - G200 Spec. Top. in Network-Systems

Instructor(s): Tao Wang

Calendar Objective/Description:
Spec. Top. in Network-Systems

Instructor's Objectives:
Information technology has accelerated and enhanced the ways in which we share personal data with each other, at the cost of expanding the privacy attack surface of various threats, including network surveillance, data theft, and privacy-compromising disclosure. We will examine current privacy-enhancing technologies that offer solutions to meet users' privacy standards. Topics include secure communication protocols, anonymity networks, privacy-preserving data sharing, protecting against data breaches, and IoT privacy.

Prerequisites:
see go.sfu.ca

Topics:
- Secure communication
- Off-the-record messaging
- Anonymity networks
- Traffic analysis
- k-anonymity
- Differential privacy
- Data breaches
- IoT privacy

Grading:
10% participation 30% paper reading 30% course project 30% exam

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).