McGill

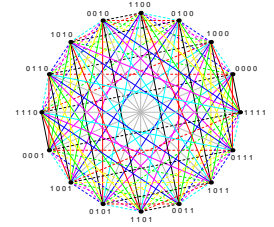# Discrete Mathematics and Optimization Seminar   F2002

**Jointly Organized by
School of Computer Science and
Department of Mathematics and Statistics**

September 9 (Monday), 17:00 – 18:00, Burnside Hall 1205

Data Mining in Solving Hard Mathematical Problems

by

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Abstract. I am going to discuss how modern data mining can help solving hard mathematical problems. My sample problems will be Andrews-Curtis Conjecture and Complexity of Whitehead method. These problems originally came from algebraic topology, but I will take on purely combinatorial viewpoint, assuming zero algebraic topology knowledge.The talk will be elementary, easily accessible to mathematicians and computer scientists.