



**Department of Mathematics, Statistics and Computer Science
St. Francis Xavier University
presents**

**Accurate land-use classification using a multi-spectral
satellite image**

by

**Dr. Reshu Agarwal
Department of Mathematics & Statistics
Acadia University**

Monday, October 27th @ 2:15pm in Annex 23A

Accurate classification of multi-spectral and hyper-spectral satellite images is a challenging problem. In this talk, I will present a reliable classifier called multi-class Bayesian Additive Classification Tree (mBACT). This is a generalization of a binary classifier based on the flexible ensemble of regression trees model called Bayesian Additive Regression Trees (BART). I will present a performance comparison of mBACT with state-of-the-art classifiers like SVM and CART for classifying a LANDSAT 5 TM land-use image over Kings County, Nova Scotia.