

For favour of posting

DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE
THE UNIVERSITY OF HONG KONG

Seminar

Professor Hui XIE

Faculty of Health Sciences
Maureen and Milan Ilich / Merck Chair in Statistics for Arthritis and Musculoskeletal Diseases
Simon Fraser University
Canada

will give a talk

entitled

**A SCALABLE APPROACH TO MEASURING
THE IMPACT OF NONIGNORABLE NONRESPONSE
WITH AN APPLICATION TO EMA DATA**

Abstract

Modern measurement and collection methods generate a large amount of data that become increasingly instrumental for public health and medicine, social sciences and business. Missing data are ubiquitous in these new types of data, and there is often a strong need to adjust inference for nonignorable data incompleteness. However, unlike in traditional studies, nonignorable missingness in these intensive data poses significant new analytic challenges and calls for more general, flexible and robust methods that are applicable in these studies to quantify and improve the reliability, validity and usability of the collected data. To meet these challenges, we develop principled and parsimonious statistical index measures that are scalable to these new types of data to quantify the reliability and validity of empirical findings, while alternative methods can become computationally prohibitive. The new method is capable of reducing hours or days of computational time to just a few seconds. We illustrate the method in a dataset collected using Ecological Momentary Assessment (EMA) methods where missing data arise because of study participants' nonresponses to those random prompts on their handheld electronic devices, and discuss the implications of the findings for developing more powerful translational interventions.

on

Tuesday, May 17, 2016

(Refreshments will be served from 11:15 a.m. outside Room 301 Run Run Shaw Building)

11:30 a.m. – 12:30 p.m.

at

Room 301, Run Run Shaw Building

Visitors Please Note that the University has limited parking space. If you are driving please call the Department at 3917 2466 for parking arrangement.

All interested are welcome