MICHIGAN STATE UNIVERSITY
Department of Statistics and Probability

COLLOQUIUM

Yuying Xie
Michigan State University

Estimation of Graphical Models with Biomedical Applications

Tuesday, November 7, 2017
10:20 a.m. - 11:10 am
Refreshments 10:00 am
C405 Wells Hall

Abstract

Graphical models are commonly used to represent conditional dependence among random variables. Many methods have been proposed to estimate the underlying directed/undirected graphs from data based different assumptions. However, those assumptions are invalid for a lot of biomedical data with dependent structure and the existence of measurement error, and thus new methodologies are indeed needed. In this talk, we discuss several issues related to graphical models and their applications including estimation of multiple graphs from dependent data, estimations of graph from noisy data, and estimation of directed graphs including Directed Acyclic Graphs (DAGs) and Vector Auto regression.

To request an interpreter or other accommodations for people with disabilities, please call the Department of Statistics and Probability at 517-355-9589.