

For favour of posting

DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE
THE UNIVERSITY OF HONG KONG

Departmental Seminar

Dr. Rui Duan

Department of Biostatistics
Harvard T.H. Chan School of Public Health

will give a talk
entitled

**EFFICIENT INTEGRATION OF EHR AND OTHER HEALTHCARE
DATASETS**

Abstract

The growth of availability and variety of healthcare data sources has provided unique opportunities for data integration and evidence synthesis, which can potentially accelerate knowledge discovery and enable better clinical decision making. However, many practical and technical challenges, such as data privacy, high-dimensionality and heterogeneity across different datasets, remain to be addressed. In this talk, I will introduce several methods for effective and efficient integration of electronic health records (EHR) and other healthcare datasets. Specifically, we develop communication-efficient distributed algorithms for jointly analyzing multiple datasets without the need of sharing patient-level data. Our algorithms do not require iterative communication across sites, and are able to account for heterogeneity across different datasets. We provide theoretical guarantees for the performance of our algorithms, and examples of implementing the algorithms to real-world clinical research networks.

on

Wednesday, March 17, 2021

9:30 a.m. – 10:30 a.m.

via Zoom

<https://hku.zoom.us/j/98455868024?pwd=UytkMHc3VnQzeEd1dFBVanhRbndlUT09>

All interested are welcome