



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON STATISTICS

**Manifold learning for noisy and high-dimensional
datasets: challenges and some solutions**

By

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Abstract

Manifold learning theory has garnered considerable attention in the modeling of expansive biomedical datasets, showcasing its ability to capture data essence more effectively than traditional linear methodologies. Nevertheless, prevalent algorithms are primarily designed for low-dimensional and clean datasets, whereas contemporary biomedical datasets tend to be high-dimensional and noisy. This presentation addresses the adaptation of these algorithms to effectively accommodate the challenges posed by high dimensionality and noise in modern datasets.

Date : 04 July 2024 (Thursday)

Time : 4:00pm - 5:00pm

Venue : Room 4504 (Lift 25/26)

All are Welcome!