



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

PHD STUDENT SEMINAR

Integration of single-cell atlases with generative adversarial networks

By

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Abstract

As single-cell technologies evolved over years, diverse single-cell atlas datasets have been rapidly accumulated. Integrative analyses harmonizing such datasets provide opportunities for gaining deep biological insights. In this talk, we present a computational approach developed for fast and accurate integration of large-scale single-cell atlases. Our method incorporates generative adversarial networks and auto-encoder structures into a unified framework. Through integration of numerous datasets, we show that our method outperforms other state-of-the-art methods in terms of scalability and accuracy.

Date : 4 May 2022 (Wednesday)

Time : 4:00pm

Zoom Meeting : <https://hkust.zoom.us/j/92441893149> (Passcode: 538242)

All are Welcome!