



統計科學研究所

INSTITUTE OF
STATISTICAL SCIENCE



S.E.M.I.N.A.R.

S.T.A.T.*A.S.

Seminar

Title : Artificial Intelligence Methods for Cancer
Pathology Evaluation

Speaker : Prof. Kun-Hsing Yu (余坤興 教授)

(Department of Biomedical Informatics, Harvard Medical
School, USA)

Time : 10:30 AM~12:00 PM, Monday, Oct 3, 2022

Place : Auditorium, B1F, Institute of Statistical Science

Abstract

Artificial intelligence (AI) is gradually changing the landscape of cancer pathology diagnosis. With recent progress in weakly-supervised machine learning algorithms, explainable AI, and high-resolution whole-slide digitization, AI methods have the potential for augmenting cancer subtyping and personalizing treatments. In this talk, I will describe interpretable and generalizable methods for extracting biological signals from gigapixel whole-slide pathology images, present case studies on integrative pathology-multiomics analyses, and identify the challenges for further progress in automated pathology evaluation.

※ Online live streaming through Cisco Webex will be available.

※ The tea reception will be held at 10:10.