



統計科學研究所

INSTITUTE OF
STATISTICAL SCIENCE



統計所學術演講



中研院統計所

學術演講

講題：Fight for Fairness in AI for Medical Imaging

講者：Prof. Po-Chih (Bruce) Kuo (郭柏志教授)

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時間：2023年9月11日(星期一)，10:30-12:00

地點：統計所B1演講廳

Abstract

Deep learning models have shown promise in medical imaging analysis, but concerns exist regarding biases leading to performance disparities among protected groups (e.g., age, race, gender). It has been shown that AI models can learn race on medical images, leading to algorithmic bias. In this talk, I will go through our recent approaches to enhance the fairness of medical image models by eliminating bias related to race, age, and gender. We hypothesize models may be learning patients' demographics via shortcut learning and combat this using self-supervised learning, image augmentation, siamese networks and adversarial learning.

※ 茶會：10：10開始

※ 中文演講，實體與線上視訊同步進行。