



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：Do we need new machine learning methods?

演講人：林智仁 教授(國立臺灣大學資訊工程學系)

時間：2022年3月21日(星期一)，10:30-12:00

地點：中央研究院統計科學研究所 B1F 演講廳



Abstract

If we ask about the need of developing new machine learning methods, usually the answer is yes. But in this talk I will argue that sometimes the answer is no. The reason is that good methods may be already there but people did not apply them. I will use a real example as an illustration. In the area of graph-representation learning, to evaluate the quality of the obtained representations, the multi-label problem of node classification is often considered. We found that an unrealistic setting was used in hundreds, if not thousands of papers by assuming that the number of labels of each test instance is known in the prediction stage. In practice such ground truth information is rarely available, but unfortunately this inappropriate setting is now ubiquitous in the area of graph-representation learning. The issue roots from that only rudimentary multi-label training methods were used even though advanced ones have long been available. The discussion shows that besides developing new methods, we should also pay attention to other aspects on the use of machine learning techniques.

※ 茶會：上午10:10開始

※ 英文演講，實體與線上視訊同步進行