

# 中央研究院統計科學研究所

## 新聘演講

講題：Large-scale Distributed Machine Learning

演講人：Mr. Ching-pei Lee (李靜沛先生)

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時間：2019年1月14日（星期一）上午10:30-12:00

地點：中央研究院統計科學研究所6005會議室(環境變遷研究大樓A棟)

※茶會：上午10:10開始

### Abstract

Machine learning frequently deals with data of volume larger than the capacity of a single machine. To accommodate the training data in memory for faster access, multiple machines are often used to train machine learning models in a distributed manner. In this scenario, the per machine computational burden is reduced, but the expensive inter-machine communication becomes the bottleneck for further accelerating the training of machine learning models. In this talk, I will introduce state-of-the-art distributed training algorithms for various machine learning tasks broadly covered by the regularized empirical risk minimization problem, including but not limited to binary and multi-class classification, regression, outlier detection, and feature selection.