

# 國立中山大學應用數學系

## 學術演講

講者：張源俊 研究員

中央研究院統計所

講題：Multiple-class classification

時間：2014/10/16（星期四）15：00 ~ 15：50

地點：理學院四樓理 SC 4011 室

茶會：14:30 於理 SC 4010 室（系辦公室）

### 摘要

Multiple-class classification is a very common problem in many applications. Many methods have been proposed in the literature, and most of them use binary classifiers as building blocks, such as one-verses-one, one-verses-others based algorithms. For a one-verses-one based algorithm, all possible binary classifiers will be constructed and the final result is based on a kind of “voting” scheme. Hence, it will usually suffer from computational efficiency. Although, this kind of computational burden will not happen to the one-verses-others based algorithm, it is usually suffer from the class-imbalanced issues, which usually largely increases the construction of the base binary classifiers. In this talk, we present a likelihood based multiple-class classification method, which is computational efficient. Both the ordinal and categorical label cases are studied. In order to diminish the “curse of dimensionality” when the dimension of the measurement vector is high and size of subjects is relatively small. Numerical results using both the synthesized and real data sets are presented.

中山大學應用數學系

敬請公告！歡迎參加！

應用數學系：<http://math.nsysu.edu.tw>

校園地圖：<http://web.nsysu.edu.tw/files/11-1000-1503.php?Lang=zh-tw>

交通資訊：<http://www.nsysu.edu.tw/files/90-1000-7.php?Lang=zh-tw>



應用數學系



校園地圖



交通資訊