

國立中央大學

統計研究所

學術演講

主講人：劉逸明教授(School of Mathematics and Statistics Victoria University of Wellington, New Zealand)

講題：Cluster Analysis for Ordered Categorical Data

時間：106年12月26日(星期二) 上午11:00 ~ 12:00

地點：中央大學鴻經館429室

茶會：上午10:30 ~ 11:00 地點：鴻經館510室

ABSTRACT

For a data matrix with ordered categorical data, we establish likelihood-based multivariate methods to reduce the dimension of the matrix. It applies fuzzy clustering via finite mixtures to ordinal response models. Model-fitting is performed using the expectation-maximization algorithm and a fuzzy allocation of rows, columns, and rows and columns simultaneously to corresponding clusters is obtained. This talk gives a summary of recent results of our working group on this topic. It includes the development on various ordinal models, Bayesian approaches, alternative correlation structures, and data visualization methods. The application in real datasets is also shown.

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