

國立中央大學

統計研究所

學術演講

主 講 人：黃信誠教授（中央研究院 統計科學研究所）

講 題：Spatial Estimation and Inference Based on Area Aggregated Data

時 間：106年11月28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

This talk contains two parts. Firstly, we consider estimation of intensity function for a spatial point pattern based on spatially aggregated count data. A standard approach for estimating the intensity function is to use a kernel estimator. However, when data are only available in a spatially aggregated form with the numbers of events available in geographical subregions, traditional methods become infeasible. In this research, a kernel-based method is proposed to produce a smooth intensity function based on aggregated data. Secondly, we consider testing a spatial signal based on data obtained by aggregating an image into several subregions. Our method utilizes a nonparametric testing procedure called enhanced false discovery rate originally developed to detect a spatial signal from an image. Some numerical examples will be given to demonstrate the effectiveness of the proposed methods.

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