

國立中山大學應用數學系

學術演講

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講題：An advanced approach to unmeasured spatial confounders

時間：2020/11/19 (Thursday) 14:10 ~ 15:00

地點：理學院四樓理 SC 4009-1 教室

茶會：13:30 於理 SC 4010 室 (系辦公室)

Abstract

In spatial regression models, collinearity between covariates and spatial random effects can lead to significant bias in the fixed effect estimate. This issue is known as spatial confounding. Reliable inference is difficult due to unobserved spatial random effects. Although a technique of restricted spatial regression had been applied to investigate this issue, the related inferences were mainly based on Bayesian frameworks. In this talk, an adjusted generalized least squares estimation method is proposed to estimate regression coefficients in the presence of spatial confounding. The proposed method can be shown to have better performance than the conventional estimation methods via theories and simulation studies. Moreover, some concerns about the proposed methodology are discussed. Finally, a real data example is analyzed for illustration.

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