

國立中山大學應用數學系

學術演講

講者：Professor Eric Slud

Mathematics Department, University of
Maryland and
Area Chief for Mathematical Statistics, Center
for Statistical Research and Methodology, US
Census Bureau

講題：Estimating Equations and Inference:
Perspective from Sample Surveys

時間：2018/06/28（星期四）14:10 ~ 15:00

地點：理學院四樓理 SC 4009-1 室

茶會：15:00 於理 SC 4010 室（系辦公室）

摘要

In this talk, I will give an overview of the role of Estimating Equations within current mathematical statistics research, highlighting areas where Estimating Equations have seen dramatic recent progress as well as areas with special interest for Sample Surveys. Estimating equations help clarify differences between Model-assisted (Design-based) inferences in surveys from those in mainstream statistics. Partially model-based inferences in surveys with missing data (which means, nearly all surveys) have led to notions of "double robustness" and "augmented inverse probability weighted" estimating equations, as described in the book of Tsiatis (2009). Inference for household surveys poses new problems related to the timing of covariate observations and new semiparametric research questions.

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