

國立中央大學

統計研究所

學術演講

主 講 人：Prof. Sanjib Basu (Northern Illinois University)

講 題：Unified Competing Risks Limited Failure Models: Bayesian Approaches and Identifiability Issues

時 間：105 年 1 月 5 日 (星期二) 上午 11:00 ~ 12:00

地 點：中央大學鴻經館 M605 室

茶 會：上午 10:30 ~ 11:00 地 點：鴻經館 510 室

ABSTRACT

Abstract: Limited failure or cure rate models postulate a fraction of units to be eventually failure free. These models model can be formulated in different ways, such as a mixture cure model or the alternative bounded cumulative intensity model. The issue of identifiability has been a topic of substantial research both in the limited failure model as well as in the competing risks literature. We propose unified competing risks limited failure models and examine the identifiability of the proposed models. We establish that identifiability is of concern in general model formulation, but it can be regained with modeling restrictions. We develop Bayesian analysis of the proposed models, and discuss methodological and computational issues related to model fitting and model selection.

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