

國立中山大學應用數學系
Dept. of Applied Math., National Sun Yat-sen University
Talk

Speaker：張馨文博士 Dr. Hsin-wen Chang
Department of Biostatistics, Columbia University,
USA

Title：Empirical likelihood based tests for stochastic ordering
under right censorship

Time：2014/02/20 (Thursday, 星期四) 14:10 ~ 15:00

Place：理學院 4 樓理 4009-1 室 (教室設備：白板、固定單槍、固定電腦)
(Room 4009-1, Dept. of Applied Math, NSYSU)

Tea Time：15:00~15:30 於理 4010 室 (系辦公室)

Abstract

When comparing survival patterns between two treatment groups in a randomized clinical trial, it is often of interest to examine whether the survival rate is uniformly higher in one group than the other. This can be framed in terms of the classical notion of stochastic ordering. We consider testing for stochastic ordering based on right-censored data, and derive our procedure using the empirical likelihood method. The proposed test is shown via a simulation study to have superior power to the log-rank and weighted Kaplan--Meier tests under crossing hazard alternatives. The approach is illustrated using data from a randomized clinical trial involving the treatment of severe alcoholic hepatitis.

(Work done jointly with Dr. Ian McKeague)

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