

中央研究院統計科學研究所

學術演講

講題：Regression Tree for Counts

演講人：Prof. Yu-Shan Shih (史玉山 教授)

Department of Mathematics,

National Chung Cheng University

(中正大學數學系)

時間：2019年9月23日 (星期一) 上午10:30-12:00

地點：中央研究院統計科學研究所6005會議室(環境變遷研究大樓A棟)

※茶會：上午10:10開始

Abstract

A regression tree method for count data called CORE is introduced. Besides a Poisson regression, a count regression such as negative binomial, hurdle, or zero-inflated regression which can accommodate over-dispersion and/or excess zeros is fitted at each node. Likelihood function is used to guide the selection of split variables and split sets. We then use node deviance in the tree pruning process to avoid overfitting. CORE is free of variable selection bias. It is shown to have an edge over the existing methods in the simulation and real data studies.

中央研究院
統計科學研究所