

國立成功大學統計學系

專題演講

時 間：108 年 12 月 12 日 (星期四) 下午 3:30 – 5:00

地 點：統計學系三樓視聽教室 (62331)

演講者：洪智傑 助理教授

淡江大學 資工系

題 目：Inferring Traveling Time and Routes in MRT Systems from Smart Card Data

茶 會：下午 3:00–3:25 (統計學系二樓教師休息室)

Abstract

Rapid transit systems are the most important public transportation service modes in many large cities around the world. Understanding route travel time and passengers route choice preference can help transportation authorities to build smart public transportation systems. More and more public transportation systems are now using smart cards to record. The smart card data record the information of the origin and destination of each individual passenger trip and the corresponding travel time. However, routes of passengers inside of the public transportation system are not known. In this talk, I will introduce a series of works to inferring traveling time and route choices preference. By observing the evolution of these works, I will also discuss similarities and differences among these works in terms of network topologies (single line vs. multi-layered graph vs. flatten graph), traveling time models (linear equation vs. Poisson distribution vs. Gaussian distribution), parameter estimation approaches (regression vs. approximation approach vs. standard MLE), and route choice inference.

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統計學系: <http://www.stat.ncku.edu.tw/news/news.asp>

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交通資訊: <http://www.stat.ncku.edu.tw/introduction/transportation.asp>



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