國立中山大學應用數學系
學術演講

講　者：Professor Cathy Yi-Hsuan Chen
Ladislaus von Bortkiewicz Chair of Statistics, School of Business and Economics, Humboldt-Universität zu Berlin

講　題：Systemic risk of central SIFIs

時　間：2016/9/22（星期四）15:10 ~ 16:00

地　點：理學院四樓理 SC 4009-1 室

茶　會：16:00 於理 SC 4010 室 (系辦公室)

摘 要

Quantifying systemic risk is in great demand but scientifically challenging due to the notion of what one has defined for systemic risk. The quantitative methods being proposed should be able to measure (1) the size of impact; (2) the scope of impact and (3) the dynamic of ripple effect. Also, identifying the main trouble maker creating a ripple effect is of importance to stabilize the financial system. This study proposes a network-based factor copula model which merges the network-based and market-based approach. Using the topological network to extract the inherent connectivity of objects of interest, we carry out the market-based approach to quantify systemic risk on the basis of the identified network. By quantifying the VaR of the portfolio comprised of non-central SIFIs conditional on the central SIFIs in the factor copula model, we document that the central SIFIs indeed are more systemic relevance. This study also posits a stress situation on each central SIFIs and simulate the resulting impact on the remaining SIFIs.

中山大學應用數學系

敬 請 公 告！ 歡 迎 參 加！

應用數學系：http://math.nsysu.edu.tw

校園地圖：http://math.nsysu.edu.tw/ezfiles/87/1087/img/779/NSYSUMAPmath990705.jpg

交通資訊：http://www.nsysu.edu.tw/files/90-1000-7.php?Lang=zh-tw

應用數學系　　校園地圖　　交通資訊