

國立成功大學統計學系

專題演講

時 間：109 年 3 月 19 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：高正雄 副教授

國立中正大學 數學系

題 目：Construction of Multivariate Histogram with Variable Windows
on Continuous Random Quantities In Case of Small Sample Size

茶 會：下午 3:00 – 3:25 (統計學系二樓教師休息室)

Abstract

In the situation of developing, studying or manufacturing very expensive objects, the random samples can be hardly available that lead us to a simple random sample of only small size. However, it may still be important that we obtain a viable histogram for the few continuous variable values to show a distribution so that further understanding about the property or nature of the variable can be attained.

The talk will defy the traditional method of getting fixed equal-width histogram, since it requires substantial amount of sample values. Rather, a new method will be shown with detailed illustrative examples on uni-variate and bivariate cases by utilizing a broad randomness principle and the concept of principal components to deal with the few sample values or sample points for construction of a meaningful histogram. The way to treat higher dimension by extending the bivariate case will also be explained. The breadth of applications with the new method to various scientific work will be presented and discussed.

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

校園地圖: <http://news.secr.ncku.edu.tw/p/412-1037-1389.php>

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