國立中央大學

統計研究所

學	術	演	講
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- 主 講 人:林孟樺 助理教授(東海大學統計學系)
- 講 題: Bayesian inference for the realized volatility model with intra-day financial time series
- 時 間:111年11月08日(星期二)<u>上午11:00~12:00</u>
- 地 點:中央大學鴻經館M429室
- 茶 會:<u>上午 10:30 ~ 11:00</u> 地 點:鴻經館 510 室

## ABSTRACT

We introduce a new variant of realized GARCH-type model which is a hybrid model integrating realized GARCH models with daily range. Using a multiplicative error structure into the measurement equation is presented to facilitate a simple volatility model for the conditional distribution of the hybrid data related to the return and range on the financial market. A Bayesian framework is constructed to deal with parameter estimation and quantile forecasts of financial return under the proposed hybrid models. The models are used to quantile forecasts such as Value-at-Risk (VaR) and expected shortfall (ES), as well as to volatility forecasts. These forecasts are assessed applying a range of tests and performance measures through empirical studies, especially in some volatile periods, such as the COVID-19 pandemic period.

Keywords: Bayesian inference; realized volatility; hybrid Realized GARCH; backtesting

◎敬請張貼

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