On the integer-valued mixture GARCH model

Shusong Jin

Fudan University, Shanghai, China

Abstract

Integer valued time series data appear naturally in medicine, particularly in epidemiology. We introduce an integer-valued mixture GARCH model as an analogue of the mixture GARCH model to capture asymmetry and bursts in such areas. The estimation method is proposed and some large sample properties are also discussed.

Keywords

Integer-valued time series, GARCH model, Poisson process, EM algorithm.

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