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Theory and Method

Testing and Locating Variance Changepoints with Application to Stock Prices

Jie Chen & A. K. Gupta

66 Cite this article   ↗ https://doi.org/10.1080/01621459.1997.10474026

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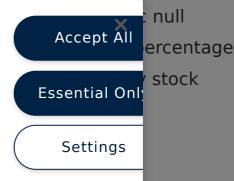
Abstract

This article explores testing and locating multiple variance changepoints in a sequence of independent Gaussian random variables (assuming known and common mean). This type of problem is very common in applied economics and finance. A binary procedure combined with the Schwarz information criterion (SIC) is used to search all of the possible variance changepoints existing in the sequence. The simulated power of the proposed procedure is compared to that of the CUSUM procedure used by Inclán and Tiao to cope with variance changepoints. The SIC and unbiased SIC for this problem are derived. [...] null distribut[...]ercentage points of [...] stock price[...]

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