Accepted Manuscript

Correlation analysis of the Korean stock market: Revisited to consider the influence of foreign exchange rate

Sang Kyun Jo, Min Jae Kim, Kyuseong Lim, Soo Yong Kim

PII: S0378-4371(17)30963-9
DOI: https://doi.org/10.1016/j.physa.2017.09.071
Reference: PHYSA 18676

To appear in: *Physica A*

Received date : 20 March 2015
Revised date : 13 August 2015

Research Highlights

- We examined the effect of foreign exchange rate in a correlation analysis of the Korean stock market.

- We collected and analyzed two types of stock prices using both random matrix theory and network analysis.

- Few particular industrial sectors exhibited substantial differences while other sectors showed small change.

- The method introduced in this paper suggest a way to measure the effect of exchange rate on an emerging stock market.