

Accepted Manuscript

Detrended fluctuation analysis based on higher-order moments of financial time series

Yue Teng, Pengjian Shang

PII: S0378-4371(17)30843-9

DOI: <http://dx.doi.org/10.1016/j.physa.2017.08.062>

Reference: PHYSA 18508

To appear in: *Physica A*

Received date: 18 April 2017

Revised date: 1 June 2017

Please cite this article as: Y. Teng, P. Shang, Detrended fluctuation analysis based on higher-order moments of financial time series, *Physica A* (2017), <http://dx.doi.org/10.1016/j.physa.2017.08.062>

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Highlights

A new method is proposed with the objective of assessing the complexity of a complex dynamical system.

We extend DFA and local scaling DFA to higher moments such as skewness and kurtosis.

DFA, SMDFA and KM DFA demonstrate the volatility behaviors of time series in different aspects.

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