

Cornell University Library

(Help | Advanced search)

Go!

arXiv.org > q-fin > arXiv:1205.0336

Search or Article-id

All papers

6

Download:

• PDF only

Current browse context: q-fin.ST < prev | next > new | recent | 1205 Change to browse by:

physics physics.data-an q-fin

References & Citations

NASA ADS



Quantitative Finance > Statistical Finance

Segmentation analysis on a multivariate time series of the foreign exchange rates

Aki-Hiro Sato

(Submitted on 2 May 2012)

This study considers the multivariate segmentation procedure under the assumption of the multivariate Gaussian mixture. Jensen-Shannon divergence between two multivariate Gaussian distributions is employed as a discriminator and a recursive segmentation procedure is proposed. The daily log-return time series for 30 currency pairs consisting of 12 currencies for the last decade (January 3, 2001 to December 30, 2011) are analyzed using the proposed method. The proposed method can detect several important periods related to the significant affairs of the international economy.

Comments: 5 pages 3 figures, submitted to the 2nd International Conference on

Management, Manufacturing and Materials Engineering (ICMMM2012) Statistical Finance (q-fin.ST); Data Analysis, Statistics and Probability Subjects: (physics.data-an) Cite as: arXiv:1205.0336v1 [q-fin.ST]

Submission history

From: Aki-Hiro Sato [view email] [v1] Wed, 2 May 2012 06:36:57 GMT (242kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.