Applied Financial Economics ›
Volume 20, 2010 - Issue 18

Original Articles

Integer-valued moving average modelling of the number of transactions in stocks

Kurt Brännäs & A. M. M. Shahiduzzaman Quoreshi

Pages 1429-1440 | Published online: 13 Sep 2010

Cite this article https://doi.org/10.1080/09603107.2010.498343

Abstra

The Inte number of transact properties are discu fered. Least squares small Monte Carlo st . Empirically we fi stock series. number of transact

Acknov

The financial support from the Jan Wallander and Tom Hedelius Foundation is gratefully acknowledged. This version has gained from the comments of seminar/workshop audiences at Umeå, Uppsala and Tilburg universities.

Notes

[1] The INMA() can also be obtained from the INAR(1), i.e. and are equal in distribution. As a large t gives that $\alpha^{t} \approx 0$ and $\beta_i = \alpha^{i}$.

[2] Pairs of thinning operations of the type and , for , are independent (McKenzie, 1988). Assumptions of this type can be relaxed (cf. Brännäs and Hall, 2001).

[3] The experiments are performed using Fortran codes. Poisson random deviates are generated by the POIDEV function (Press et al., 1992), while the binomial thinning is performed by the BNLDEV function.

[4] and $\beta_{k} < 0.01$ for $k \geq 32$ for $\gamma_1 = -0.1$, the sum is 1.87 for $k \geq 16$ and $\gamma_1 = -0.2$, 1.61 for $k \geq 11$ and $\gamma_1 = -0.3$, and 1.45 for $k \geq 8$ and $\gamma_1 = -0.4$.

[5] Note that for a count data INAR(1) model with a unit root the observed sequence of observations can not decline. Adding a MA part to the INAR(1) does not alter this feature. me series, so that a ur

[6] In som represer

Source: Multidisciplinary Digital Publishing Institute

Estimating the parameters of a BINMA Poisson model for a non-stationary bivariate time series

Source: Informa UK Limited

Integer-Valued Self-Exciting Threshold Autoregressive Processes

Source: Informa UK Limited

Parameter estimation for binomial AR(1) models with applications in finance and industry

Source: Springer Science and Business Media LLC

INAR(p) MODELS

Source: Wiley

Local influence in Poisson autoregression

Source: Wiley

Thinning-based models in the analysis of integer-valued time series: a review

Source: SAGE Publications

References

Source: John Wiley & Sons, Ltd

Quasi-Maximum Likelihood Estimation for Long Memory Stock Transaction Data—Under Conditional Heteroskedasticity Framework

Source: Blekinge Tekniska Högskola, Institutionen för industriell ekonomi

Inferential methods for an unconstrained nonstationary BINMA time series process with Poisson innovations

Sourc

Linki

Relat