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

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Abstra

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

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Notes

[1] The INMA(∞) can also be obtained from the INAR(1), i.e. $y_t = \alpha \circ y_{t-1} + \varepsilon_t$ and $y_t = \alpha^t \circ y_0 + \sum_{i=1}^{t} \alpha^{t-i} \circ \varepsilon_i$ 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 th quence of observat r this feature. me series, so that a u

[6] In som represe

INARMA Modeling of Count Time Series
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
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Quasi-Maximum Likelihood Estimation for Long Memory Stock Transaction Data—Under Conditional Heteroskedasticity Framework
Source: Blekinge Tekniska Högskola, Institutionen för industriell ekonomi
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