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Applied Financial Economics > Volume 20, 2010 - Issue 18

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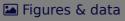
Integer-valued moving average modelling of the number of transactions in stocks

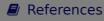
Kurt Brännäs 🔀 & A. M. M. Shahiduzzaman Quoreshi

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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, <u>1988</u>). Assumptions of this type can be relaxed (cf. Brännäs and Hall, <u>2001</u>).
- ³ The experiments are performed using Fortran codes. Poisson random deviates are generated by the POIDEV function (Press et al., <u>1992</u>), while the binomial thinning is performed by the BNLDEV function.
- ⁴ and β $_k$ < 0.01 for $k \ge 32$ for $\gamma_1 = -$ 0.1, the sum is 1.87 for $k \ge 16$ and $\gamma_1 = -$ 0.2, 1.61 for $k \ge 11$ and $\gamma_1 = -$ 0.3, and 1.45 for $k \ge 8$ 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

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INARMA Modeling of Count Time Series

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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 X Linkir Relate

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