Diagnostic Checking Cointegrated Multivariate Time-Series Models

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This paper derives the joint limiting distributions of residual autocorrelations from cointegrated (partially non-stationary) multivariate autoregressive and autoregressive-moving average models. The asymptotic distributions of portmanteau statistics constructed from the residual autocorrelations are also obtained. The finite sample performance of these statistics in diagnostic checking multivariate time series models are studied through simulations.

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