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Modelling Federal Reserve Discount Policy

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Abstract

We employ threshold cointegration methodology to model the policy problem solved by the Federal Reserve System in their manipulation of the discount rate under a reserves target operating procedure utilized since October 1979. The infrequent and discrete adjustments that characterize movements in the discount rate instrument vis-a-vis the Federal Funds rate do not lend themselves to a linear cointegration framework. The inherently nonlinear relationship arising from the Fed's self-imposed constraints on discontinuously changing the discount rate is satisfactorily modelled as an instance of threshold cointegration between the discount rate and the Federal Funds rate.

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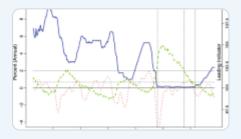
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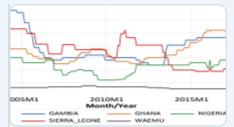
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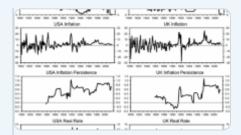
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References

Andrews, D.W.K. (1993). Tests for parameter instability and structural change with unknown change point, *Econometrica* **61**: 821-856.

Google Scholar

Bai, J. and Perron, P. (1994). Testing for and Estimation of Multiple Structural Changes, unpublished working paper, M.I.T., (October).

Balke, N. and Fomby, T. (1994). *Threshold Cointegration*, unpublished working paper, Southern Methodist University, (October).

Cook, T. (1989). Determinants of the Federal funds rate, 1979-1982, Federal Reserve Bank of Richmond Economic Review **75**: 3-19.

Google Scholar

Engle, R. and Granger, C.W.J., (1987). Co-integration and error correction: representation, estimation and testing, *Econometrica* **55**: 251-276.

Google Scholar

Goodfriend, M. (1983). Discount window borrowing, monetary policy, and the post-October 6, 1979 Federal Reserve operating procedure, *Journal of Monetary Economics* **12**: 343-356.

Google Scholar

Goodfriend, M. (1991). Interest rates and the conduct of monetary policy, *Carnegie-Rochester Conference Series on Public Policy*, **34**: 7-30.

Google Scholar

Goodfriend, M. and Whelpley, W. (1986). Federal funds: instrument of Federal Reserve policy, *Federal Reserve Bank of Richmond Economic Review*, (September-October), 3-11.

Hansen, B. (1996). Inference where a nuisance parameter is not identified under the null hypothesis, *Econometrica*, **64**: 413-430.

Google Scholar

Karasulu, M. (1995). Essays on the European exchange rate target zone,

unpublished Ph.D. dissertation, Boston College.

Keir, P. (1981). Impact of discount policy procedures on the effectiveness of reserve targeting, in *New Monetary Control Procedures*, Federal Reserve Staff Study, Vol. 1, (February).

Kwiatkowski, D., Phillips, P.C.B., Schmidt, P. and Shin, Y. (1992). Testing the null hypothesis of stationarity against the alternative of a unit root: How sure are we that economic time series have a unit root?, *Journal of Econometrics* **54**: 159-178.

Google Scholar

Peristiani, S. (1991). The model structure of discount window borrowing, *Journal of Money, Credit and Banking* **23**(1): 13-34.

Google Scholar

Priestley, M.B. (1988). *Non-linear and Non-stationary Time Series Analysis*, Academic Press, London.

Google Scholar

Tinsley, P. et al. (1982). Policy robustness: specification and simulation of a monthly money market model, *Journal of Money, Credit and Banking* **14**(4): pt. 2 829-856.

Google Scholar

Tong, H. (1983). *Threshold Models in Non-linear Time Series Analysis*, Lecture Notes in Statistics Vol. 21. Springer-Verlag, New York.

Google Scholar

Tong, H. (1990). Non-linear time series: A dynamical system approach. Clarendon

Press, Oxford.

Google Scholar

Tsay, R. (1989). Testing and modeling threshold autoregressive processes, *Journal* of the American Statistical Association **84**: 231-240.

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