— Menu

Search



Home > Review of Quantitative Finance and Accounting > Article

Dynamic Linkages Between the Greater China Economic Area Stock Markets—Mainland China, Hong Kong, and Taiwan

Published: June 2005

Volume 24, pages 343–357, (2005) Cite this article



Review of Quantitative Finance and

Accounting

<u>Aims and scope</u> → <u>Submit manuscript</u> →

Abstract

This research examines the linkages among three Greater China Economic Area (GCEA) stock markets, including Mainland China, Hong Kong, and Taiwan, and two developed markets, Japan and the United States. We find that: (1) a random walk model is outpredicted by an autoregressive GARCH model and an ARIMA model in all three GCEA markets; (2) the three GCEA markets are not cointegrated with either U.S. or Japan but there exists weak nonlinear relationships between these markets; and (3) result from the innovation accounting analysis reveals that the U.S. market has larger influence on the GCEA markets than the Japanese market. Additionally, Hong Kong is the most influential among the three GCEA markets.



Access this article

Log in via an institution \rightarrow

Subscribe and save

- from €37.37 /Month Springer+
- Starting from 10 chapters or articles per month
- Access and download chapters and articles from more than 300k books and 2,500 journals
- Cancel anytime

View plans

Buy Now

 \rightarrow

Buy article PDF 39,95 €

Price includes VAT (Poland)

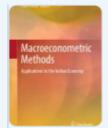
Instant access to the full article PDF.

<u>Institutional subscriptions</u> →

Similar content being viewed by others



The dynamic dependence between stock markets in the and U.S. Stock Market greater China economic area: Returns: A Multivariate a study based on extreme...



Inter-Linkages Between Asian Risk Management **GARCH Analysis**



Chapter © 2023

Chapter © 2023

Explore related subjects

Discover the latest articles, books and news in related subjects, suggested using machine learning.

<u>Asian Economics</u> <u>Capital Markets</u> <u>Economic Geography</u>

Emerging Markets and Globalization International Economics North American Economics

References

Allen, M., and G. MacDonald, "The Long-Run Gains from International Equity Diversification: Australian Evidence from Cointegration Tests." *Applied Financial Economics* 5, 33–42 (1995).

Google Scholar

Aggarwal, R. C. Inclan and R. Leal, "Volatility in Emerging Stock Markets." *Journal of Financial and Quantitative Analysis* 34, 33–55 (1999).

Google Scholar

Aggarwal, R, M. Mougoue, "Cointegration Among Asian Currencies: Evidence of the Increasing Influence of the Japanese Yen." *Japan and the World Economy* 8, 291–308 (1996).

Article Google Scholar

Aggarwal, R, A. Montanes, and M. Ponz, "Evidence of Long-Run Purchasing Power Parity: Analysis of Real Asian Exchange Rates in Terms of the Japanese Yen." *Japan and the World Economy* 12, 351–361 (2000).

Article Google Scholar

Azman-Saini, W., M. Azali, M. S. Habibullah, and K. G. Matthews, "Financial Integration and the ASEAN-5 Equity Markets." *Applied Economics* 34, 2283–2288 (2002).

Article Google Scholar

Campbell, J. Y., and Y. Hamao, "Predictable Stock Returns in the United States and Japan: A Study of Long-Term Capital Market Integration." *Journal of Finance* 47, 43–70 (1992).

Google Scholar

Chan, K. C., B. Gup, and M. Pan, "An Empirical Analysis of Stock Prices in Major Asian Markets and the United States." *Financial Review* 27, 289–307 (1992).

Article Google Scholar

Cheung, Y., and L. K. Ng, "A Causality-in-Variance Test and Its Application to Financial Market Prices." *Journal of Econometrics* 72, 33–48 (1996).

Article MathSciNet Google Scholar

Chowdhury, A. R., "Stock Market Interdependencies: Evidence from the Asian NIEs." *Journal of Macroeconomics* 16, 629–651 (1994).

Article Google Scholar

Corhay, A., A. T. Rad, and J. Urbain, "Long Run Behavior of Pacific-Basin Stock Prices." *Applied Financial Economics* 5, 11–18 (1995).

Google Scholar

Darrat, A., and M. Zhong, "On Testing the Random-Walk Hypothesis: A Model Comparison Approach." *Financial Review* 35, 105–124 (2000).

Article Google Scholar

Darrat, A., and M. Zhong, "Permanent and Transitory Driving Forces in the Asian-Pacific Stock Markets." *Financial Review* 37, 35–52 (2002).

Article Google Scholar

Engle, R. F., and C. W. J. Granger, "Co-integration and Error Correction: Representation, Estimation, and Testing." *Econometrica* 55, 251–276 (1987).

Google Scholar

Fama, E. F., and K. R. French, 1989. "Business Conditions and Expected Returns on Stocks and Bonds." *Journal of Financial Economics* 25, 23–49 (1989).

Article Google Scholar

Geweke, J., "Measure of Nonlinear Dependence and Feedback Between Multiple Time Series." *Journal of the American Statistical Association* 77, 304–313 (1982).

Google Scholar

Ghosh, A., R. Saidi, and K. H. Johnson, "Who Moves the Asia-Pacific Stock Markets - Japan or US? Empirical Evidence Based on the Theory of Cointegration." *Financial Review* 34, 159–170 (1999).

Article Google Scholar

Goetzmann, W. N., and P. Jorion, "Re-Emerging Markets." *Journal of Financial and Quantitative Analysis* 34, 1–33 (1999).

Google Scholar

Granger, C. W. J., "Development in the Study of Cointegrated Economic Variables." *Oxford Bulletin of Economics and Statistics* 48, 213–228 (1986).

Hung, B. and Y. L. Cheung, "Interdependence of Asian Emerging Equity Markets." *Journal of Business Finance & Accounting* 22, 281–288 (1995).

Google Scholar

International Finance Corporation. 2000. *Emerging Markets Fact Book*. Washington D.C.: IFC.

Google Scholar

Johansen, S., "Statistical Analysis of Cointegrating Vectors." *Journal of Economic Dynamics and Control* 12, 231–254 (1988).

Article Google Scholar

Johansen, S., "Estimation and Hypothesis Testing of Cointegrating Vectors in Gaussian Vector Autoregressive Models." *Econometrica* 59, 1551–1580 (1991).

Google Scholar

Johansen, S. and K. Juselius, "Maximum Likelihood Estimation and Inference on Cointegration with Application to the Demand for Money." *Oxford Bulletin of Economics and Economics and Statistics* 52, 169–210 (1990).

Google Scholar

Johnson, R. and L. Soenen, "Asian Economic Integration and Stock Market Comovement." *Journal of Financial Research* 25, 141–157 (2002).

Article Google Scholar

Kwok, R. H., "Market Integration in the Four Newly Industrialized Economies of Asia." in T. Bos and T. A. Fetherston, ed., *Advances in Pacific Basin Financial Markets*, Jai Press, Connecticut, 199–209, 1995.

Marcus, A. J., "An Equilibrium Theory of Excess Volatility and Mean Reversion in Stock Market Prices." National Bureau of Economic Research Working Paper no. 3106, 1989.

Markowitz, H., "Portfolio Selection." Journal of Finance 7, 77-91 (1952).

Google Scholar

Masih, A. M. and R. Masih, "A Comparative Analysis of the Propagation of Stock Market Fluctuations on Alternative Models of Dynamic Causal Linkage." *Applied Financial Economics* 7, 59–74 (1997).

Article Google Scholar

Okunev, J., and J. Wilson, "Using Nonlinear Tests to Examine Integration between Real Estate and Stock Markets." *Real Estate Economics* 25, 487–503 (1997).

Article Google Scholar

Phillips, P., and P. Perron, "Testing for a Unit Root in Time Series Regression." *Biometrika* 75, 335–346 (1988).

Google Scholar

Reimers, H. E., "Comparisons of Tests for Multivariate Cointegration." *Statistical Papers* 33, 335–359.

Sharma, S. and P. Wongbangpo, "Long-Term Trends and Cycles in ASEAN Stock Markets." *Review of Financial Economics* 11, 299–315 (2002).

Article Google Scholar

Siegel,. J., Stocks for the Long Run. New York: McGraw-Hill, 1998.

Google Scholar

Taylor, M. and I. Tonks, "The Internationalization of Stock Markets and the Abolition of U.K. Exchange Control." *Review of Economics and Statistics* 71, 332–336 (1989).

Google Scholar

Wheatley, S., "Some Tests of International Equity Market Integration." *Journal of Financial Economics* 21, 177–212 (1988).

Article Google Scholar

Author information

Authors and Affiliations

Fannie Mae, 3900 Wisconsin Avenue N.W., Washington DC, 20016 Hwahsin Cheng

Grosvenor Professor of Real Estate Finance, Department of Land Economy, University of Cambridge, Cambridge, UK

John L. Glascock

Corresponding author

Correspondence to <u>Hwahsin Cheng</u>.

Additional information

JEL Classification: G10, G14, G15

Opinions and results presented in this paper are those of the authors and are not intended to represent the views, policies, or interests of Fannie Mae. This paper is not the result of Fannie Mae related research and does not use or cite Fannie Mae data sources.

Rights and permissions

Reprints and permissions

About this article

Cite this article

Cheng, H., Glascock, J.L. Dynamic Linkages Between the Greater China Economic Area Stock Markets—Mainland China, Hong Kong, and Taiwan. *Rev Quant Finan Acc* **24**, 343–357 (2005).

https://doi.org/10.1007/s11156-005-7017-7

Issue date

June 2005

DOI

https://doi.org/10.1007/s11156-005-7017-7

Key words

<u>market integration</u> <u>diversification</u> <u>market efficiency</u>

Search

Search by keyword or author

Q

Find a journal		
Publish with us		
Track your research		