



Home ► All Journals ► Economics, Finance & Business ► Applied Economics ► List of Issues Volume 47, Issue 57 Pairs trading: does volatility timing ma .... Q Applied Economics > Volume 47, 2015 - Issue 57 1.401 24 1 Views CrossRef citations to date Altmetric **Original Articles** airs trading: does volatility timing matter? Nicolas Huck 🖂 Pages 6239-6256 | Published online: 24 Jul 2015 Check for updates **66** Cite this article https://doi.org/10.1080/00036846.2015.1068923 Sample our Economics, Finance, Business & Industry Journals >> Sign in here to start your access to the latest two volumes for 14 days Full Article 🔚 Figures & data References **66** Citations **Metrics** Read this article Reprints & Permissions Share

## Abstract

Pairs trading is a dollar-neutral trading strategy. Using the components of two major stock indices, the S&P 500 and the Nikkei 225, this article deals with the performance of a pairs trading system based on various pairs selection methods (distance, stationarity, cointegration) over a 10-year period. On both markets, using a classical framework, cointegration appears superior and effective. On the U.S. market and also in Japan to a lower extent, pairs trading strategies exhibited an impressive performance during the 2008 financial crisis. Bearish periods are associated with a high level of the VIX index: the 'investor fear gauge'. Using a modified trading system, this article examines the link between pairs trading performance and volatility/VIX timing. It is shown that for the best selection technique (cointegration), timing volatility has no economic value in a pairs trading context.

Keywords:

pairs tradi	ng	trading rules	VIX timing
EL Class	ifica	tion:	
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## Notes

<sup>1</sup> The Nikkei 225 Index contains about twofold fewer stocks than the S&P 500, which makes the detection of a large number (at least 20 per month/sequence) of cointegrated pairs, at a 5% rate, quite difficult. For cointegration only, the pre-selection is based on a 20% filter so that the population after this preliminary step remains large enough.

<sup>2</sup> The Japanese factors reported in this library are in dollars and not in yen. <u>http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data\_library.html</u>.

<sup>3</sup> These time series end in March 2013. Regressions are thus computed between July 2003 and March 2013 (117 points versus 120 points with U.S. data), <u>http://homepage.sns.it/marmi/Data\_Library.html</u>.



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