

The Determinants of Foreign Institutional Herding: Evidences from Fundamental and Technical Analyses

徐敬晟、陳玉芬

E-mail: 360073@mail.dyu.edu.tw

ABSTRACT

This paper investigates whether foreign institutional investors in Taiwan herd towards the same stock and why they do. The results reveal that foreign institutional investors in Taiwan do herd towards the same stocks. They prefer stocks with high past returns, large size and high market-to-book ratios, which implies that foreign institutional investors are momentum traders. As for the technical indicators, moving average (MA), bias and the relative strength index (RSI) are applied, which constitute the herding indicators for foreign institutional investors. As the stock price breaks up (or down) its moving average, foreign institutional investors herd towards the stock. Such herding behavior is much more significant by using the long-term indicator, MA (250). As using the indicator of bias, foreign institutional investors herd towards the same stock with a bias value exceeding 5%. However, the magnitude of herding behavior is more significant as using the short-term indicator, BIAS (5). The stocks are also divided as strong stocks and weak stocks by using the relative strength index. As we focus on the long-term RSI, foreign institutional investors herd towards to strong stocks instead of weak stocks.

Keywords : herding behavior、fundamental analyses、technical analyses

Table of Contents

中文摘要	iii	英文摘要
iv 致謝辭	v	內容目錄
. vi 表目錄	viii	圖目錄
. . . ix 第一章 緒論	1	第一節 研究背景與動機
. 1 第二節 研究目的	3	第三節 研究流程與架構
. 4 第二章 文獻探討	6	第一節 從眾行為相關理論
. 6 第二節 從眾之成因	8	第三節 基本面指標
. 11 第四節 技術指標分析	15	第三章 研究設計
. 21 第一節 資料來源	21	第二節 變數設計與研究方法
法 21 第四章 實證結果	27	第一節 檢視外資之間是否有從眾現象
是否有從眾現象 27 第二節 檢視外資從眾是否源自於個股之基本面特性	28	第三節 檢視外資從眾是否源自於個股之技術面特性
從眾是否源自於個股之技術面特性 29 第五章 結論與建議	35	第一節 結論
. 35 第二節 建議	36	參考文獻
. 37 表目錄 表 1-1 台灣外資交易上市櫃股票概況表	2	表 1-2 集中交易市場投資法人交易概況表
表 4-1 外資從眾值	27	表 4-2 基本面分析對外資從眾行為影響以標準化橫斷面迴歸
表 4-3 前一期股價突破移動平均線對外資從眾行為影響	29	表 4-4 前一期股價跌破移動平均線對外資從眾行為影響
表 4-5 乖離率(BIAS)大於5%之個股對外資從眾行為影響	31	表 4-6 乖離率(BIAS)小於-5%之個股對外資從眾行為影響
表 4-7 相對強弱指標大於80之個股對外資從眾行為影響	33	表 4-8 相對強弱指標小於20之個股對外資從眾行為影響
表 4-9 圖目錄 圖 1-1 研究流程圖	34	
	5	

REFERENCES

- 一、中文部分 吳志偉 (2005)，台灣股市外資與投信投資策略，國立東華大學國際金融研究所碩士論文。 李顯儀，吳幸姬(2009)，技術分析資訊對共同基金從眾行為的影響，臺大管理論叢，20(1)，227-260。 施存玉(1997)，淨值市價比效果之探討，台灣大學財務金融學系碩士班未出版之碩士論文。 洪美琴 (2006)，外資持股偏好與投資策略之研究，大葉大學事業經營研究所碩士論文。 胡玉雪(1994)，益本比、淨值/市價比及公司規模對股票報酬之影響:相似無關迴歸法之應用，國立台灣大學商學所未出版之碩士論文。 劉憶如 (2004)，外資在台灣證券交易市場角色之研究，臺灣證券交易所委託研究。 謝劍平(1998)，「現代投資學 - 分析與管理」，初版，台北:智勝文化。
- 二、英文部分 Banerjee, A. (1992). A simple model of herd behavior. *Quarterly Journal of Economics*, 107(3), 797-817. Barberis, N., & Shleifer, A.

(2001). Style Investing. working paper. University of Chicago and Harvard University. Barberis, N., Shleifer, A., & Vishny, R.(1998). A model of investorSentiment. Journal of Financial Economics, 49(3), 307-343. Beja, A., & Goldman, M. B. (1980). On the dynamic behavior of prices in disequilibrium. Journal of Finance, 35(2), 235-247. Bennett, J. A., Sias, R. W., & Starks, L. T.(2003). Greener pastures and the impact of dynamic institutional preferences. The Review of Financial Studies, 16(4), 1203-1238. Bikhchandani & Sunil, S.(2001). Herd Behavior in Financial Markets. IMF Staff Papers. Palgrave Macmillan, 47(3), 279-310. Bikhchandani, S., Hirshleifer, D., & Welch, I. (1992). A theory of fads, fashion, custom, and cultural change as informational cascades. Journal of Political Economy, 100(5), 992-1026. Bohan, J. (1981). Relative strength: further positive evidence. Journal of Portfolio Management, 7(3), 36-39. Carhart, M. (1997). On Persistence in Mutual Fund Performance. Journal of Finance, 52(1), 57-82. Chan, L., Hamao, Y., & Lakonishok J.(1991). Fundamentals and Stock Returns in Japan. Journal of Finance, 46(5), 1739-1764. Chang, E. C., Cheng, J. W., & Khorana, A. (2000). An examination of herd behavior in equity markets: An international perspective. Journal of Banking and Finance, 24(10), 1651-1679. Chen, Y. F., Wang, C. Y., & Lin, F. L. (2008). Do the qualified foreign institutional investors herd in Taiwan ' s securities markets? Emerging Markets Finance & Trade, 44(4), 62-74. Choe, H., B. C. Kho, & Stulz, R. M. (2001). Do domestic investors have more valuable information about individual stocks than foreign investors? Working Papers, 8073, National Bureau of Economic Research. Choe, H., Kho, B., & Stulz, B. R. (1999). Do foreign investors destabilize stock markets? The korean experience in 1997. Journal of Financial Economics, 54(2), 227-264. Christie, W. G., & Huang, R. D. (1995). Following the pied pier: Do individual returns herd around the market? Financial Analyst Journal, 51(4), 31-37. Dahlquist, M., & Robertson, G. (2001). Direct foreign ownership, in-stitutional investors, and firm characteristics. Journal of Financial Economics, 59(3), 413-440. De. B. W. and Thaler, R. (1987). Further Evidence On Investor Over-reaction and Stock Market Seasonality. Journal of Finance 42(3), 557-581. De. B. W., & Thaler, R. (1985). Does the Stock Market Overreact? Journal of Finance 40(1), 795-805. Del Guercio, D. (1996). The Distorting Effect of the Prudent-Man Laws on Institutional Equity Investment. Journal of Financial Economics, 40(1), 31-62. Devnow, A., & Welch, I. (1996). Rational herding in financial eco-nomics. European Economic Review, 40(1), 603-615. Falkenstein, E. G. (1996). Preferences for stock characteristics as re-vealed by mutual fund portfolio holdings. Journal of Finance, 51(1), 111-135. Falkenstein, E., & Hanweck, J. (1996). Minimizing basis risk from non-parallel shifts in the yield curve. Journal of Fixed Income, 6(1), 60-68. Fama, Eugene F. (1965). The Behavior of Stock-Market Prices. Journal of Business, 38(1), 34-105. Fama, Eugene F., & Kenneth, R. F. (1992). The Cross-Section of Ex-pected Stock Returns. Journal of Finance, 47(1), 427-465. Fama, Eugene F., & Kenneth, R. F. (1993). Common Risk Factors in the Returns on Stocks and Bonds. Journal of Financial Eco-nomics, 33(1), 3-56. Froot, K. A., Scharfstein, D. S., & Stein, J. C. (1992). Herd on the street: Informational inefficiencies in a market with short-term speculation. Journal of Finance, 47(4), 1461-1484. Gompers, P. A., & Metrick, A. (2001). Institutional investors and eq-uity prices. Quarterly Journal of Economics, 116(1), 229-259. Grinblatt, M., & Keloharju, M.(2000). The investment behavior and performance of various investor types. Journal of Financial Economics, 55(1), 43-67. Grinblatt, M., & Titman, S. (1989). Portfolio Performance Evaluation: Old Issues and New Insights. Review of Financial Studies, 2(3), 393-422. Grinold, R. C., & Kahn, R. N. (1992). Information analysis. Journal of Portfolio Management, 18(3), 14-21. Grossman, S. J., & Stiglitz J. (1980). On the Impossibility of Informationally Efficient Markets. American Economic Review 70(3), 393-408. Hirshleifer, D., Subrahmanyam, A., & Titman, S. (1994). Security analysis and trading patterns when some investors receive in-formation before others. Journal of Finance, 49(5), 1665-16 98. Jegadeesh, N., & Titaman, S. (1993). Returns to buying winners and selling losers: Implications for stock market efficiency. Journal of Finance, 48(1), 65-91. Jensen, M. C., & Benington, G. A. (1970). Random walks and techni-cal theories: Some additional evidence. Journal of Finance, 25(2): 469-482. Kamesaka, A., Nofsinger, J., & Kawakita, H.(2003) Investment pat-terns and performance of investor groups in Japan. Pa-cific-Basin Finance Journal, 11(1), 1-22. Keynes J. M. (1936) The General Theory of Employment, Interest, and Money. Lakonishok, J., Shleifer, A., & Vishny, R. W. (1992). The impact of institutional trading on stock prices. Journal of Financial Eco-nomics, 32(1), 23-43. Levy, R. A. (1967). Relative strength as a criterion for investment se-lection. Journal of Finance, 22(4), 595-610. Montier, J. (2002). Behavioural Finance: Insights into Irrational Minds and Markets. Chichester: John Wiley. Murphy, J. J. (1999). Technical analysis of the financial markets: A comprehensive guide to trading methods and applications. New York: New York Institute of Finance. Myers, S.C. (1977). Determinants of Corporate Borrowing. Journal of Financial Economics, 5(2), 147-175. Nofsinger, J., & Sias, R. (1999). Herding and feedback trading by in-stitutional and individual investors. Journal of Finance, 54(6), 2263-2295. Pirinsky, C., & Wang, Q. (2004). Institutional investors and the co-movement of equity prices. Working Paper, Texas A&M Uni-versity. Pruitt, S. W., & White, R. E. (1988). The CRISMA Trading System: Who Says Technical Analysis Can ' t Beat the Market? Journal of Portfolio Management, 14(3), 55-58. Ratner, M., & Leal, R. P. C. (1999). Test of technical trading strategies in the emerging equity markets of Latin America and Asia. Journal of Banking and Finance, 23(12), 1887-1905. Ready, M. J. (2002). Profits from technical trading rules. Financial Management, 31(3), 43-61. Reilly, F. K., & Drzycimski, E. F.(1981). An Analysis of the Effects of a Multi-Tiered Stock Market. Journal of Financial and Quanti-tative Analysis, 16(4), 559-575. Robert W., & John, G. J. (1971).Convergence and creolization: A case from the Indo-Aryan/Dravidian border in India. In Dell Hymes, ed., Pidginization and creolization of languages. Cambridge: Cambridge University Press. 151-167. Scharfstein, A. S., & Stein J. C. (1990). Herd Behavior and Investment. American Economic Review 80(3), 465-479. Sias, R. W. (2004). Institutional herding. Review of Financial Studies, 17(1), 165-206. Sias, R., Starks, L., & Titman, S. (2002). The Price Impact of Insti-tutional Trading. working paper. University of Texas and Wash-ing-ton State University. Trueman, B. (1994). Analyst Forecasts and Herding Behavior. Review of Financial Studies 7(1), 97-124. Tvede L. (2006). Business Cycles: History, Theory and Investment Reality by L. Tvede and Lars Tvede (2006, Hardcover): History, Theory and Investment Reality. John Wiley & Sons Inc. Wermers, R. (1999). Mutual fund herding and the impact on stock prices. The Journal of Finance, 54(2), 581-622.