

The dynamic relation between return and institutional and individual trades

廖鴻軒、陳玉芬、林福來

E-mail: 344758@mail.dyu.edu.tw

ABSTRACT

This study investigates the daily dynamic relations between returns and institutional and individual trades in the Taiwan Stock Exchange(TSE) and Over-The-Counter market(OTC). Further, we test Granger-causality between institutional and individual trades at a portfolio level. The empirical results in price-volume relationship are listed as follows. First, returns in both markets lead the trading volume. Second, the implications of these results are consistent with the noise trader model proposed by DeLong et al. (1990). Third, the magnitude of the response function of market returns to shocks from total trading volume and institutional imbalance is different, especially in short time horizons. As for the interactions between individual and institutional trading, we find that market returns have more predictive power for individual trading than that for institutional trading and the response of individual trading to return shocks is much stronger than that of institutional trading. Second, institutional trading has more predictive power for market returns. That is, the impact of institutional trading on market returns is stronger than individual trading. Third, in consistent with the hypotheses we proposed, there is bi-directional feedback effect between institutional trading and individual trading. Moreover, the response of institutional trading to its own shocks indicates strong autocorrelations in TSE market ; the response of individual trading to its own shocks indicates strong autocorrelations in OTC market Finally, we divide our sample into five portfolios based on firm size and test the causality relations between institutional and individual trading volumes. We find that the relations between institutional trading and markets returns vary with the size quintiles. On the other hand, the relations between individual trading and market returns also depend on the size quintiles.

Keywords : price-volume relationship、the trading behavior of investor、granger causality、impulse response function

Table of Contents

中文摘要	ii	英文摘要	ii
iv 誌謝	vi	目錄	vii
目錄	viii	表目錄	ix
ix 第一章 緒論	1	第一節 研究背景與動機	1
1 第二節 研究目的	3	第二章 文獻探討與研究假說	3
4 第一節 價量關係	4	第二節 投資人交易行為與市場報酬率之互動關係	7
7 第三節 研究假說	9	第三章 資料來源與研究方法	11
11 第一節 資料來源與變數說明	11	11 第二節 研究方法	12
12 第四章 實證結果	18	18 第一節 基本統計量結果	18
18 第二節 報酬率、週轉率與法人買賣超之互動關係	20	20 第三節 報酬率、法人與散戶交易行為之互動關係	26
26 第四節 不同市值族群之因果關係檢定	35	35 第五章 結論	42
42 第一節 研究結論	42	42 第二節 與過去相關文獻比較	44
44 參考文獻	45		

REFERENCES

- 一、中文部分 1.姚蕙芸與聶建中(2003),「空頭走勢期間台灣股票市場成交量與股價之關聯性研究」,臺北商技學報,4,2-25。 2.徐清俊與陳盈君(2003),「報酬率與成交量之因果關係-台灣店頭市場實證研究」,明志學報 35,41-47。 3.張哲章(1998),「融資融券餘額、成交量與股價指數之關聯性研究」,證券金融季刊 56,67-94。 4.張嘉宏(1994),台灣股票市場加權股價指數與融資餘額、融券餘額關係之研究,東海大學企業管理研究所碩士論文。 5.莊家彰與管中閔(2005),「台灣與美國股市價量關係的分量迴歸分析」,經濟論文,33,379-404。 6.許溪南、郭玟秀與鄭乃誠(2005),「投資人情緒與股價報酬波動之互動關係:台灣股市之實證」,台灣金融財務季刊 6,107-121。 7.陳文玲(2008),台灣股價指數、融資融券餘額與三大法人操作互動性分析,台灣大學經濟學系研究所碩士論文。 8.陳世平(2005),台灣股市三大法人與一般投資人行為互動及其對股市影響之關聯性研究-多變量 VAR GJR-GARCH 模型之應用,台北大學合作經濟學系研究所碩士論文。 9.曾富敏(2005),「以向量自我迴歸模式探討臺灣股價、成交量、融資融券與法人進出之關聯性」,真理財

經學報 13,43-74。 二、英文部分 1.Badrinath, S. G., and S. Wahal (2002), " Momentum trading by institutions, " The Journal of Finance, 57, 2449-2478. 2.Barber, B.M., and T. Odean (2002), " Online investor: do the slow die first? " Review of Financial Studies, 15, 455-487. 3.Barber, B.M., and T. Odean (2008), " All that glitters: the effect of attention and news on the buying behavior of individual and institutional investors, " Review of Financial Studies, 21, 785-818. 4.Brown, G. W., and M. T. Cliff (2004), " Investor sentiment and the near-term stock market, " Journal of Empirical Finance, 11, 1-27. 5.Cai, F., and L. Zheng (2004), " Institutional trading and stock returns, " Finance Research Letters, 1, 178-189. 6.Clark, P. K., (1973), " A subordinated stochastic process model with finite variance for speculative prices, " Journal of the Econometric Society, 135-155. 7.Copeland, T. E., (1976), " A model of asset trading under the assumption of sequential information arrival, " The Journal of Finance, 31, 1149-1168. 8.Daigler, R., and M. Wiley (1990), " The impact of trader type on the futures volatility – volume relation, " Journal of Finance, 54, 2297-2316. 9.Delong, J., and A. Shleifer. L. Summers, and B. Waldmann (1990), " Positive Feedback Investment Strategies and Destabilizing Rational Speculation, " Journal of Finance, 45, 379-395. 10.Edelen, R. M., and J. B. Warner (2001), " Aggregate price effects of institutional trading: a study of mutual fund flow and market returns, " Journal of Financial Economics, 59, 195-220. 11.Epps, T. W., and M. L. Epps (1976), " The stochastic dependence of security price changes and transaction volumes: Implications for the mixture-of-distributions hypothesis, " Journal of the Econometric Society, 305-321. 12.Granger, C. W. J., (1969), " Investigating causal relations by econometric models and cross-spectral methods, " Journal of the Econometric Society, 424-438. 13.Griffin, J. M., F. Nardari, and R. M. Stulz (2007), " Do investors trade more when stocks have performed well? Evidence from 46 countries, " Review of Financial Studies, 20, 905. 14.Grinblatt, M., and M. Keloharju (2000), " The investment behavior and performance of various investor types: a study of Finland's unique data set, " Journal of Financial Economics, 55, 43-67. 15.Grinblatt, M., and M. Keloharju (2001), " What makes investors trade? " The Journal of Finance, 56, 589-616. 16.Grinblatt, M., S. Titman, and R. Wermers (1995), " Momentum investment strategies, portfolio performance, and herding: A study of mutual fund behavior, " The American Economic Review, 85, 1088-1105. 17.Gervais, S., R. Kaniel, and D. Mingelgrin (2001), " The high-volume return premium, " Journal of Finance, 56, 877-919. 18.Karpoff, J. M., (1987), " The relation between price changes and trading volume: A survey, " Journal of Financial and Quantitative Analysis, 22, 109-126. 19.Lee, B. S., W. Li, and S. S. Wang (2010), " The dynamics of individual and institutional trading on the Shanghai Stock Exchange, " Pacific-Basin Finance Journal, 18, 116-137. 20.Nofsinger, J. R., and R. W. Sias (1999), " Herding and feedback trading by institutional and individual investors, " The Journal of Finance, 54, 2263-2295. 21.Pesaran, H. H., and Y. Shin (1998), " Generalized impulse response analysis in linear multivariate models, " Economics letters, 58, 17-29. 22.Said, S. E., and D. A. Dickey (1984), " Testing for unit roots in autoregressive-moving average models of unknown order, " Biometrika, 71, 599. 23.Sias, R. W., and L. T. Starks (1997), " Return autocorrelation and institutional investors, " Journal of Financial Economics, 46, 103-131. 24.Sias, R., (2004), " Institutional herding, " Review of Financial Studies, 17, 165-206. 25.Sims, C. A., (1980), " Macroeconomics and Reality, " Econometrica, 48, 1-48. 26.Tauchen, G., and M. Pitts (1983), " The price variability-volume relation on speculative markets, " Econometrica, 51, 485-503. 27.Wermers, R., (1999), " Mutual fund herding and the impact on stock prices, " The Journal of Finance, 54, 581-622.