

# 金融海嘯對台灣、新加坡匯率衝擊之探討

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## 摘要

本研究是在自我迴歸向量模型裡，將集中討論四個主要內生變數：工業生產指數、失業率、實質工資和消費者物價指數。檢視金融海嘯下台灣和新加坡匯率衝擊之影響，再將工業生產指數、失業率與實質工資並加入消費者物價指數做迴歸式分析，用來檢驗四變數變動是否對匯率造成衝擊。

關鍵詞：自我迴歸向量模型(VAR)，匯率(exchange rate)，衝擊(shock)

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## 參考文獻

- 一、中文部份 行政院主計處(1998)，人力資源調查統計結果[線上資料]，來源：<http://www.dgbas.gov.tw/mp.asp?mp=1> [2010, May 3]。中華經濟研究院資料庫(2001)，東亞經貿投資研究[線上資料]，來源：<http://sear.cier.edu.tw/zlk.htm> [2010, April 5]。汪惠慈(2005)，區域整合對東亞的影響，企業季刊，9(3)，21-34。吳家興(2000)，金融風暴後韓國企業的重整，主要國家經貿政策月刊，113(2)，92-101。范芝萍(2000)，政府規模、外貿、投資與經濟成長的因果關係 - 台灣之實證研究，國立台北大學經濟學系未出版之碩士論文。徐千婷(2005)，台灣的匯率管理與匯率反應函數 - 兼論新加坡的匯率政策，中央銀行季刊，27(3)，79-96。陳建助(2003)，從全球化觀點解析新加坡國家機關、經濟市場與市民社會之三角互動，國立成功大學政治經濟研究所未出版之碩士論文。蔡雅萍(2005)，小型開放經濟下之能源衝擊與景氣循環，中原大學國際貿易學系未出版之碩士論文。楊長罪(2005)，以向量自我迴歸模式探討台灣股價及國際油價之關聯性，南華大學管理科學未出版之碩士論文。蘇筱容(2001)，價格指數之選取對長期購買力平價說成立之影響 - 美國與其亞洲之主要貿易國之實證，佛光人文社會學院經濟學研究所未出版之碩士論文。謝明瑞(2009)，金融海嘯的探討與對策，企業季刊，21(2)，56-62。
- 二、英文部份 Agnes, C., & Balazs, V. (2002). The role of the exchange rate in the transmission mechanism in hungary. *Journal of International Money and Finance*, 31(2), 1-38. Artis, M. J., & Ehrmann, M. (2000). The exchange rate-a shock absorber or source of shocks? A study of four open economies. *Journal of International Money and Finance*, 25(2), 874-893. Anderson, H., Kwar, N. S., & Vahid, F. (1999). Does international trade synchronise business cycles? *Journal of International Money and Finance*, 36(2), 8-99. Aaker, D. A. (1989). Managing assets and skills: The key to a sustainable competitive advantage. *California Management Review*, 31(2), 99-106. Alun, T. (1997). Macroeconomic shocks in Euroland vs the UK: Supply, demand, or nominal? *Journal of International and Finance*, 66(2), 96-121. Bjornland, C. (2000). The role of the exchange rate as a shock absorber in a small open economy. *Journal of International Money and Finance*, 23(4), 24-42. Blanchard, J. O., & Quah, D. (1989). The dynamic effects of aggregate demand and supply disturbances. *American Economic Review*, 79(2), 655-673. Boynton, A. C., & Zmud, R. W. (1984). An assessment of critical success factor. *Journal of International Money and Finance*, 25(4), 17-27. Buiter, W. (2000). Optimal currency areas scottish

economic society / royal bank of scotland annual lecture 1999. *Scottish Journal of Political Economy*, 47(3), 213-249. Campbell, J. Y., & Mankiw, G. N. (1987). Are output fluctuations transitory? *Quarterly Journal of Economics*, 102(3), 857-80. Canzoneri, M. B., Valles, J., & Vitoriano, J. (1996). Do exchange rates move to address international macroeconomic imbalances? *Journal of International Money and Finance*, 65(2), 1498. Clark, P. (1987). The cyclical component in U.S. economic activity. *Quarterly Journal of Economics*, 65(2), 797-814. Cochrane, J., (1988). How big is the random walk in GNP. *Journal of Political Economy*, 96(3), 893-920. Clarida, R., & Gali, J. (1994) Sources of real exchange rate fluctuations: How important are nominal shocks? *Journal of International Money and Finance*, 95(3), 46-58. Christiano, L. J., & Eichenbaum, M. (1992). Liquidity effects and the monetary transmission mechanism. *Journal of Monetary Economics*, 82(1), 346-353. Cushman, D. O., & Zha, T. (1997). Identifying monetary policy in a small open economy under flexible exchange rates. *Journal of Monetary Economics*, 39(2), 433-448. Dibooglu, S., & Kutan, A. M. (2001). Sources of real exchange rate fluctuations in transition economies: The case of Poland and Hungary. *Journal of Comparative Economic*, 29(4), 257-275. Drabek, Z., & Brada, J. C. (1998). Exchange rate regimes and the stability of trade policy in transition economies. *Journal of Comparative Economics*, 26(3), 642-668. Dickey, D. A., & Fuller, W. A. (1981). Likelihood ratio statistics for autoregressive time series with a unit root. *Journal of Comparative Economics*, 49(4), 1057-1072. Dornbusch, R. (1976). Expectations and exchange rate dynamics. *Journal of Political Economy*, 84(2), 1167-1176. Engle, R. F., & Granger, C. W. J. (1987). Cointegration and error correction: Representation, estimation, and testing. *Journal of Comparative Economics*, 55(2), 251-276. Engle, R. F. (1982). Autoregressive conditional heteroscedasticity with estimates of the variance of United Kingdom inflation. *Econometrica*, 50(2), 987-1007. Funke, M. (2000). Macroeconomic shocks in Euroland vs the UK: supply, demand, or nominal? *Journal of Comparative Economics*, 61(2), 110-135. Gerlach, S., & Smets, F. (1995). Financial structure and the monetary policy transmission mechanism, bank for international settlements: *Journal of Comparative Economics*, 91(3), 122-130. Granger, C. W. J. (1969). Investigating causal relation by econometric models and cross-spectral methods. *Econometrica*, 37(3), 424-438. Granger, C. W. J., & Newbold, P. (1974). Spurious regressions in econometrics. *Journal of Econometrics*, 21(1), 111-120. Hakkio, C. (1986). Does the exchange rate follow a random walk? A monte-carlo study of four tests for random walk. *Journal of international Money and Finance*, 74(2), 221-230. Halpern, C., & Wyplose, C. (1997). A heteroskedasticity consistent covariance matrix estimator and a direct test for heteroskedasticity. *Journal of Economic Dynamics and Control*, 59(2), 31-54. Johansen, S. (1988). Statistical analysis of cointegration vectors. *Journal of Economic Dynamics and Control*, 12(2), 231-254. Johansen, S., & Juselius, K. (1990). Maximum likelihood estimation and inference on cointegration-with application to the demand for money. *Journal of Econometrics*, 27(1), 169-210. Katie, F., & Gert, P. (2006). Is the exchange rate a shock absorber or a source of shocks? New empirical evidence. *Journal of Money, Credit, and Banking*, 38(4), 941-961. Krugman, P. (1989). Exchange rate instability. *Journal of Econometrics*, 38(2), 69-81. Lark, C. (1987). The monetary framework in Norway. *Journal of Econometrics*, 49(1), 171-183. Lastrapes, W. D. (1992). Sources of fluctuations in real and nominal exchange rates. *Journal of international Money and Finance*, 96(2), 530-539. Latus, C. (1977). Functional relationships in an hierarchical phonology. *Journal of Econometrics*, 38(2), 473-79. Michael, A., & Michael, E. (2000). The exchange rate. A shock-absorber or source of shocks? A study of four open economies. *Journal of Econometrics*, 38(2), 3-34. MacKinnon, J. G. (1991). Critical values for cointegration tests. Unpublished manuscript, University of California at San Diego. Nemenyi, J. (1997). Monetary policy in hungary: Strategies, instruments and transmission mechanism. *Journal of Econometrics*, 72(2), 131-161. Ng, C., & Benigno, M. (2004). Monetary policy 's role in exchange rate behavior. *Journal of Monetary Economics*, 50(7), 1403-1424. Obstfeld, M., & Rogoff, K. (1995). Exchange rate dynamics redux. *Journal of Political Economic*, 103(3), 624-660. Obstfeld, M., & Rogoff, K. (2000). New directions for stochastic open economy models. *Journal of International Economics*, 50(2), 117- 153. Obstfeld, M. (1985). Floating exchange rates: experience and prospects. *Brookings Papers on Economic Activity*, 69(1), 369-450. Sims, C. A. (1980). Macroeconomics and Reality. *Journal of Econometrics*, 48(3), 1-48. Said, S. E., & Dickey, D. A. (1984). Testing for unit roots in autoregressive-moving average models of unknown order. *Biometrika*, 71(3), 599-607. Schwartz, G. (1978). Estimating the dimension of a model. *Journal of Econometrics*, 61(2), 461-464. Shapiro, M., & Watson, M. (1988), Sources of business cycle fluctuations. *Journal of Econometrics*, 95(2), 111-148. Thomas, A. (1997). Is the exchange rate a shock absorber? The case of Sweden. Working Paper of the International Monetary Fund, 10(2), 97-106. Zivot, E., & Andrews, D.W.K. (1992). Further evidence on the great crash, the oil-price shock, and the unit-root hypothesis. *Journal of Business and Economic Statistics*, 10(2), 251-270.