

# The Relationship between Internet Banking Involvement and Customer Satisfaction

黃啟川、林英顏

E-mail: 9701481@mail.dyu.edu.tw

## ABSTRACT

Due to the keen market competition and the massive regulations on setting up branch centers, banks are urged to develop quality Internet banking services for their customers. Internet banking services that meet customer needs improve customer satisfaction, which in turns helps banks stay competitive in the business. This research studies the Internet banking services and explores their relationships between customer's Internet banking involvement and satisfaction. The goals of this research are: 1. To review existing developments of Internet banking. 2. To investigate the levels of satisfaction of current Internet banking customers. 3. To identify the relationships between customers' Internet banking involvement and satisfaction. 400 questionnaires were sent out by the researcher to survey customers who used Internet banking services in Taiwan. Among these questionnaires, 322 of them were effective and were validated by the t-test, one-way ANOVA test, Pearson correlation analysis, and the hierarchical regression method. The validation results yielded that when a customer was more engaged in Internet banking, either practically or psychologically, the customer had a higher level of satisfaction. Also, more frequent or broader utilization of Internet banking increased a customer's physiological involvement with the services, which in turns increased the overall customer satisfaction. In conclusion, banks need to persistently promote the frequency of Internet banking usage and expand their available services to achieve continuous improvement on customer satisfaction.

Keywords : internet banking ; involvement ; customer satisfaction

## Table of Contents

中文摘要 . . . . .	iii	英文摘要 . . . . .
iv 誌謝辭 . . . . .	iv	vi 內容目錄 . . . . .
vii 表目錄 . . . . .	vii	ix 圖目錄 . . . . .
xi 第一章 緒論 . . . . .	1	1 第一節 研究背景 . . . . .
1 第二節 研究問題 . . . . .	4	4 第三節 研究的重
要性 . . . . .	5	7 第一節 網
第二章 文獻探討 . . . . .	7	15 第三
路銀行 . . . . .	7	22 第三章 研究設計 . . . . .
第二節 客戶滿意度 . . . . .	22	26 第一節 研究架構 . . . . .
第三節 網路銀行涉入程度 . . . . .	26	26 第二節 研究假設 . . . . .
變數的操作性定義與測量 . . . . .	27	27 第四節 樣本與資料收集 . . . . .
32 第四章 樣本資料分析 . . . . .	34	34 第一節 樣本基本資料分析 .
34 第二節 網路銀行服務使用現況分析 . . . . .	37	37 第三節 網路銀行涉
38 第四節 客戶滿意度分析 . . . . .	39	39 第五節 人
人口統計變項與各變數間之關係 . . . . .	41	52 第五章
結論與建議 . . . . .	57	57 第一節 研究結論 . . . . .
第二節 研究限制 . . . . .	62	62 第三節 建議 . . . . .
64 參考文獻 . . . . .	65	65 附錄A 研究問卷 . . . . .
	81	

## REFERENCES

- 一、中文部份 伍兆麟(1996), 電子銀行流行大趨勢, 網路資訊, 57, 89-91。吳齊殷(1998), 電腦網路的社會衝擊:以倫理議題為例, 應用倫理研究通訊, 5, 7-11。李家晏(2001), 網路銀行顧客滿意度衡量指標建置之研究, 國立中正大學資訊管理研究所未出版之碩士論文。李榮謙(1995), 中央銀行在金融市場全球化的角色, 國際金融參考資料, 36, 1-8。卓慶龍(1999), 網際網路之金融服務-以美國網路銀行為例, 國立台灣大學商業研究所未出版之碩士論文。周文賢, 游信益(2005), 網路銀行服務品質、關係品質、與顧客忠誠之研究, 企業管理學報, 65, 31-60。周泰華, 黃俊英, 郭德賓(1999), 服務品質與顧客滿意度評量模式比較研究, 輔仁管理論, 6(1), 37-68。周素華(1993), 電子通訊科技使用行為之研究 - 以交大學生為例, 國立交通大學土木工程研究所未出版之碩士論文。連偉成(1999), 全球資訊

網(WWW)使用者行為與時間分配之研究，私立長榮大學經營研究所碩士論文。莊景弼(2000)，我國網路銀行關係品質模式之研究，私立大葉大學資訊管理研究所未出版之碩士論文。張德儀(1998)，WWW使用者之瀏覽行為與心理探究，國立中正大學企業管理研究所碩士論文。陳錫儒(1997)，推行網路銀行的影響因素及其效益與衝擊之研究，私立淡江大學資訊管理研究所未出版之碩士論文。葉其葳(1997)，網際網路對電子銀行服務影響之研究，國立中正大學財務金融研究所未出版之碩士論文。資策會FIND(2007)，經濟部技術處創新資訊應用研究計畫【線上資料】，來源：<http://www.find.org.tw/find/home.aspx?page=many&id=170>(2007,April 19) 劉梓棣(1995)，網路社會裡的人際關係，教育部電子計算機中心簡訊，8405，13-9。劉慶洲(2004)，非營利組織客戶滿意度之研究 - 以國立台灣美術館為例，私立朝陽科技大學碩士論文。蔡世田，賴榮勝(1997)，電子銀行之發展及電腦規劃與設計，(台灣省政府所屬各機關因公出國人員報告書，86府經研展字第043322號)。鄭月遂(1998)，台灣金融業邁向電子化時代，台灣金融月刊，34(5)，12-16。賴崇益(2001)，實體銀行與網路銀行使用者滿意認知差異比較，國立東華大學企業管理研究碩士論文。蘇雲華(1996)，服務品質衡量方法之比較研究，國立中山大學企業管理研究所未出版之博士論文。二、英文部份 Andrews, J. C., Durvasula, S., & Akhter, S. H. (1990). A Framework for Conceptualizing and Measuring the Involvement Construct in Advertising Research. *Journal of Advertising*, 19(4), 27-40. Szajna, B. (1996). Empirical evaluation of the revised technology acceptance model. *Management Science*, 42(1), 85-92. Booz, Allen, & Hamilton Inc. (1997). Internet banking: a global study of potential. Booz, Allen & Hamilton Inc., New York, NY. Bradley, L., & Stewart, K. (2002). A Delphi study of the drivers and inhibitors of Internet banking. *The International Journal of Bank Marketing Bradford*, 20(6), 250. Cadotte, E., Woodruff, R., & Jenkins, R. (1987). Expectations and Norms in Models of Consumer Satisfaction. *Journal of Marketing Research*, 24(August), 305-314. Cardozo, R. N. (1965). An experimental study of consumer effort, expectation and satisfaction. *Journal of Marketing Research*, 21(August), 244-249. Carlsmith, J. M., & Aronson, E. (1963). Some hedonic consequences of the confirmation and disconfirmation of expectancies. *Journal of Abnormal and Social Psychology*, 66(Feb), 151-156. Lei-da, C., Khalid, S., En, M., & Mark, N. F. (2000). Measuring user satisfaction with data warehouses: An exploratory study. *Information & Management*, 37(Feb), 103-110. Chikara, T., & Takahashi, T. (1997). Research of measuring the customer satisfaction for information systems. *Computers and Industrial Engineering*, 33(3), 639-642. Churchill, G. A., & Carol, S. (1982). An investigation into the determinants of consumer satisfaction. *Journal of Marketing Research*, 19(4), 491-504. Dabholkar, P. A. (1996). Consumer evaluations of new technology-based self-service options: An investigation of alternative models of service quality. *International Journal of Research in Marketing*, 13(1), 29-51. Davis, F. D., Bagozzi, R. P., & Warshaw, P. R. (1989). User acceptance of computer technology: a comparison of two theoretical models. *Management Science*, 35(8), 982-1003. Dennis A. A., Ryan R. N., & Peter A. T. (1992). Perceived Usefulness, Ease of Use, and Usage of Information Technology: A Replication. *MIS Quarterly*, 16(2), 227-247. Detmar S., Moez L., & Elena K. E. (1995). Measuring system usage: implications for its theory testing. *Management Science*, 41(8), 1328-1342. Doll, W. J. & Torkzadeh, G. (1998). The measurement of end-user computing satisfaction. *MIS Quarterly*, 12(2), 259-274. Dorfman, P. W. (1979). Measurement and meaning of recreation satisfaction: A case study in camping. *Environment and Behavior*, 11(4), 483-510. Elena, K., & Detmar, W. S. (1999). The psychological origins of perceived usefulness and ease-of-use. *Information & Management*, 35(4), 237-250. Engel, J. F., & Blackwell, R. D. (1982). *Consumer Behavior*, 4th ed. New York: The Dryden Press. Engel, J. F., Blackwell, R. D., & Miniard, P. W. (1993). *Consumer Behavior*(7th ed.). Harcourt Broce Joranovich College Publishers, The Dryden Press. Eugene, W. A., Claes, F., & Donald, R. L. (1994). Customer satisfaction, market share, and profitability: Findings from sweden. *Journal of Marketing*, 58(3), 53-66. Festinger, L. (1957). *A Theory of Cognitive Dissonance*. CA: standard University press. Fornell (1992). A national customer satisfaction barometer: The swedish experience. *Journal of Marketing*, 56(1), 6-21. Gerrard, P., & Cunningham, J. B. (2003). The diffusion of internet banking among singapore consumers. *The International Journal of Bank Marketing*, 21(1), 16-28. Gold, J. S. (2000). High-Net-Worth Clients Go Self-Service Route. *American Banker*, March 9. Herbert E. K. (1965). The impact of television advertising: Learning without involvement. *The Public Opinion Quarterly*, 29(3), 349-356. Hovland, C. I., Harvey, O. J., & Sherif, M. (1957). Assimilation and contrast effects in reactions to communication and attitude change. *Journal of Abnormal and Social Psychology*, 55(2), 44-252. Ittner, C. & Larcker, D. (1998). Are nonfinancial measures leading indicators of financial performance? An analysis of customer satisfaction. *Journal of Accounting Research*, 36(Suppl.), 1-35. Jack J. B., Margrethe H. O., & Blake I. (1986). An empirical study of the impact of user involvement on system usage and information satisfaction. *Communications of the ACM*, 29(3), 232-238. John, A. H., & Jagdish, N. S. (1969). *The theory of buyer behavior*. New York, John Wiley and Sons, 54. Johnson, M. D., Anderson, E. W., & Fornell, C. (1994). Rational and Adaptive Expectations in a Customer Satisfaction Framework. Working paper, National Quality Research Center, University of Michigan Business School. Karen F., William W. L., & Daniel E. N. (2000). Internet banking: Developments and prospects. *Economic and Policy Analysis Working Paper 2000-9*. Unpublished manuscript. Kotler P, Ang SH, Leong SM, Tan CT(1996). *Marketing Management: An Asian Perspective*. New Jersey: Prentice- Hall. Kotler (1994). *Marketing management: analysis, planning, implementation and control*. 8th ed. Engewood Cliffs, New Jersey: Prentice-Hall. Laaksonen P. (1994). *Consumer Involvement: Concepts and Research*. London: Routledge. Levine, T., & Donitsa S. (1998). Computer use, confidence, attitudes, and knowledge: A causal analysis. *Computers in Human Behavior*, 14(1), 125-146. Liao, S., Shao, Y. P., Wang, H., & Chen, A. (1999). The Adoption of Virtual Banking: An Empirical Study. *International Journal of Information Management*, 19(1), 63-74. Lovelock, C. H. (1996). *Services Marketing*, third ed. New Jersey: Prentice Hall. Lovelock, C., & Lauren, W. (1998). *Principles of Service Marketing and Management*. New-Jersey: Prentic-Hall. Magid I., Nancy Z., Paul C., & Angele L. M. (1997). Personal computing acceptance factors in small firms: A structural equation model. *MIS Quarterly*, 21(3), 279-305. Mahoney, L. (1994). Virtual banking. *Bank Marketing*, 26(12), 77. Mano, H., & Oliver, R. (1993). Assessing the dimensionality and structure of the consumption experience: Evaluation, feeling, and satisfaction. *Journal of Consumer Research*, 20(December), 451-466. Matthew L. M., Amy L. O., Robert I. R., & Mary J. B. (2000). *Self-service technologies: Understanding customer*

satisfaction with technology-based service encounters. *Journal of Marketing*, 64(3), 50-64. Richins M.L., Bloch P. H. (1991). Post-purchase product satisfaction: Incorporating the effectsof involvement and Time. *Journal of Business Research*, 23(2), 145-158. Mefford, R. N. (1993). Improving service quality: Learning from manufacturing. *International Journal of Production Economics*, Elsevier, 30(July), 399-413. Meuter, M. L., Amy, L. O., Robert I. R., & Mary, J. B. (2000). Self-Service technologies: Understanding customer satisfaction with technology-based service encounters. *Journal of Marketing*, 64(July), 50-64. Michael A. M., Leonard L. B., & Manjit S. Y. (2000). An empirical investigation of customer satisfaction after service failure and recovery. *Journal of Service Research*, 3(2), 121-137. Miller, J. A. (1997). Studying Satisfaction Modifying Models, Eliciting Expectation, Posing Problem, and Meaningful Measurement, In *The Conceptualization of Consumer Satisfaction and Dissatisfaction*. Hunt, H. (eds). Cambridge: Marketing Science Institute. Mols, N. P. (1998). The behavioral consequences of PC banking. *International Journal of Bank Marketing*, 16(5), 195-201. Oliver, R. L. (1981). Measurement and evaluation of satisfaction processes in retail settings. *Journal of Retailing*, 57(Fall), 25-48. Oliver, R. L., & Desarbo, W. S. (1988). Response determinants in satisfaction judgments. *Journal of Consumer Research*, 14(4), 495-507. Oliver, R. L. (1993). Cognitive affective and attributes bases of satisfaction response. *Journal of Consumer Research*, 20(3), 419-422. Oliver, R. L. (1980). A cognitive model of the antecedents and consequences of satisfaction decisions. *Journal of Marketing Research*, 17(11), 460-469. Pamela, D., & John, H. R. (1998). Matching electronic distribution channels to product characteristics: The role of congruence in consideration set formation. *Journal of Business Research*, 41(3), 223-229. Pant, S., & Cheng, H. (1996). Business on the Web: strategies and economics. *Computer Networks and ISDN Systems*, 28(7-11), 1481-1492. Paul S. G, Mark F., Javier F. L., & Pamela R. S. (1995). Customer-firm relationships, involvement, and customer satisfaction. *The Academy of Management Journal*, 38(5), 1310-1324. Paul G. P. (1993). Expectations and product performance as determinants of satisfaction for a high-involvement purchase. *Psychology and Marketing*, 10(5), 449-465. Pew Internet & American Life (2006). Internet penetration and impact. [http://www.pewinternet.org/pdfs/PIP\\_Internet\\_Impact.pdf](http://www.pewinternet.org/pdfs/PIP_Internet_Impact.pdf) Riesman, D. (1965). *The lonely crowd*. Yale University Press: New Haven. Sathye, M. (1999). Adoption of internet banking by australian consumers: An empirical investigation. *International Journal of Bank Marketing*, 17(7), 324-334. Sivadas, E., & Baker-Pruitt, J. L. (2000). An examination of the relationship between service quality, customer satisfaction, and store loyalty. *International Journal of Retail & Distribution Management*, 28(2), 73-82. Selnes, F., & Havard, H. (2001). The potential hazard of self-service in developing customer loyalty. *Journal of Service Research*, 4(2), 79-90. Shaoyi, L., Yuan, P. S., Huiqing, W., & Ada, C. (1999). The adoption of virtual banking : An empirical study. *International Journal of Information on Management*, 19(1), 63-74. Sherif, M., & Cantril, H. (1947). *The psychology of ego-involvements*. New York: Wiley. Srinivasan, S. S., Rolph, A., & Kishore, P. (2002). Customer loyalty in e-commerce: An exploration of its antecedents and consequences. *Journal of Retailing*, 78(1), 41-50. Szymanski, D. M., & Hise, R. T. (2000). E-satisfaction: An initial examination. *Journal of Retailing*, 76(3), 309-322. Talmor, S. (1995). New life for dinosaurs. *The Banker*, 145(September), 75-78. Tan, M., & Teo, T. S. H. (2000). Factors influencing the adoption of internet banking. *Journal of the Association for Information Systems*, 1(5), 1-42. Terrence, L., & Gordon, H. G. M. (1996). Determinants of customer satisfaction in retail banking. *International Journal of Bank Marketing*, 14(7), 12-20. Venkatesh S., Amy K. S., & Arvind R. (2003). Customer satisfaction and loyalty in online and offline environments. *International Journal of Research in Marketing*, 20(2), 153-175. Volker, T., Michael, K., Vidhya, A., Tim, A., & Justus, V. G. (2003, April). The environmental and social impacts of ebanking-A case study with Barclays PLC Final Report. Paper presented at Digital Europe: e-business and sustainable development. Walfried, M. L., Chris M., & Sharon, S. L. (2005). The relationship between consumer innovativeness, personal characteristics, and online banking adoption. *The International Journal of Bank Marketing*, 23(2/3), 198-199. Walther, J. B. (1994). Anticipated ongoing interaction versus channel effects on relational communication in computer-mediated interaction. *Human Communication Research*, 20(4), 473-501. Walther, J. B. (1996). Computer-mediated interaction:Impersonal, interpersonal and hyperpersonal interaction. *Communication Research*, 23(1), 3-43. Weisul, Kimberly (1997). Consultant study sees big future for on-line corporate banking. *Investment Dealers Digest*, 63(18), 15. Westbrook, & Oliver, R. L. (1991). The dimensionality of consumption emotion patterns and consumer satisfaction. *Journal of Consumer Research*, 18, (1) 84-91. Williams, R. H. & Zigli, R. M. (1987). Ambiguity impedes quality in the service industries. *Quality Progress*, 20(7), 14-17. Woodruff, R. B., Ernest, R. C., & Jenkins, R. L. (1983). Modeling consumer satisfaction processes using experience-based norms. *Journal of Marketing Research*, 20(3), 296-304. Zaichkowsky, J. L. (1985). Measuring the involvement construct. *Journal of Consumer Research*, 12(3), 341-352. Zaichkowsky, J. L. (1994). Research notes: The personal involvement inventory: Reduction, revision and application to advertising. *Journal of Advertising*, 23(4), 58-70. Zeithaml, V. A., & Bitner, M. J. (2000). *Services Marketing: Integrating Customer Focus Across the Firm*. 2nd ed. McGraw-Hill Inc.