

The Impact of Self-Service Technologies on the Customer Satisfaction and Loyalty in Banking Services

戴賢智、賴其勛；高立箴

E-mail: 9223139@mail.dyu.edu.tw

ABSTRACT

The traditional service is a "high-touch, low-tech" of delivery system which the research of service encounters of aimed at the interaction between customers and employee's face-to-face or voice-to-voice. With the development of technology, many companies have introduced it into service industry in order to satisfy consumers. Not only have it changed at original relationship of interpersonal contact, but also replaced the interactive interface between consumers and employees. Actually, customers can use it to serve by themselves. Therefore, the focus of this study is in banking services, in the Impact of Self-Service Technologies on the customer satisfaction and loyalty. The results revealed: 1. Consumers perceived that the self-service technologies could contain operation easily, produce technology failure, save money and respond immediately. 2. Consumers perceived that the self-service technologies could operation easily, save money and respond immediately; it could increase the consumer satisfaction. 3. Consumers perceived that the self-service technologies could produce technology failure; it could decrease the consumer satisfaction. 4. The more the satisfaction of the consumer, the more its loyalty. Key Words: service encounters、self-service technologies(SSTs)、satisfaction、loyalty

Keywords : Service encounters ; Self-service technologies(SSTs) ; Satisfaction ; Loyalty

Table of Contents

目錄 封面內頁 簽名頁 授權書	iii 中文摘要
v 英文摘要	頁碼 目錄
表目錄	第一章 緒論
1 第一節 研究背景與動機	5 第二節 研究目的
2 第二章 文獻探討	
3 第三節 忠誠度之探討	6 第二節 滿意度
41 第一節 研究架構	37 第三章 研究方法
42 第二節 研究	41 第二節 研究
假設	42 第三節 資料設計方法
49 第四節 資料分析方法	50 第五節 問卷之效度分析
性統計分析	61 第二節 描述
第四節 本研究模型估計結果	66 第三節 本研究結構模型之評估
51 第四章 資料分析與結果 第一節回收樣本資料分析	70
74 第五章 結果與建議	
78 第一節 研究結果	76 第二節 管理意涵
80 第三節 研究限制	83 第四節 未來研究
方向	84 參考文獻
究問卷	97 圖目錄 圖2-1服務經營系統觀
11 圖2-2服務藍圖	13 圖2-3服務接觸之評估模式
14 圖2-4服務接觸之分析架構	15 圖2-5服務接觸
三向度為區隔之服務接觸案例	16 圖2-6服務接觸構面與顧客反應間關係之因果模式路徑圖
圖2-7服務行銷金字塔	21
41 圖3-2 自助式服務技術驗証性因素分析模式圖	58 圖3-3 滿意度驗証性因素分析模式
圖	58 圖4-1 消費者最常
使用自助式服務技術次數分配圖	68 圖4-2本研究之架構圖
異性檢定 (SCTDs) 決策樹模型圖	73 圖4-3 連續 2差
研究修正後之因果關係路徑圖	75 圖4-4本研究結構模型檢視圖
12 表2-2服務接觸之相關研究	76 圖4-5本
79 表目錄 表2-1服務行銷系統中之有形元素及溝通成份	
18 表2-3 自助式服務技術在使用上的種類與例子	

23 表2-4顧客滿意與不滿意重要事例分析表 的來源 衡量部份 量變數題項 式服務技術之因素分析 誠度之因素負荷量 度之配適度評估 表3-12自助式服務區別分析之結果表 74 表4-7巢狀模式分析表 77 表4-9最大概似估計法(ML)之 估什值 80	30 表3-1自助式服務之滿意衡量部份 46 表3-3滿意度與忠誠度部份 48 表3-5自助式服務技術因素分析轉軸後之成份距離 55 表3-7滿意度之因素負荷量 56 表3-9滿意度之配適度評估 59 表3-11自助式服務技術 值之相關矩陣 61 表4-1回收樣本之基本資料次數分配表 64 表4-2回收樣本對銀行業自助式服務項目使用頻率之次 數分配表 67 表4-4各構面之描述性統計 72 表4-6巢狀分析之五種模式的定義 75 表4-8最大概似估計法(ML)之 估計值 79 表5-1實證結果彙整表	27 表2--5科技介入服務接觸滿意與不滿意 45 表3-2自助式服務之不滿意 47 表3-4研究問卷之衡 52 表3-6自助 56 表3-8忠 58 表3-10忠誠 59 65 表4-3消 70 表4-5
--	---	---

REFERENCES

第六章 參考文獻 壹、 中文部份 1、 林陽助(1996) , 顧客滿意度決定模型與效果之研究 以台灣自用小客車之實證 , 國立台灣大學商學研究研究博士論文 , p48-81。 2、 林敬生(1991) , 論信用評等機構的設立及其功能 , 自由中國之工業 , 第76卷第3期 , 頁1-10 3、 李賢 (1997) , 我國新商業銀行經營競爭能力與行銷策略之研究 , 大葉大學事業經營研究所碩士論文。 4、 吳萬益、林清河(2000) , 企業研究方法 , 華泰書局總經銷。 5、 周逸衡、關復勇、凌儀玲(1998) , 眼鏡零售業人員服務接觸與顧客反應間關係之研究亞太管理評論 , 第三卷 , 第二期 , 頁149-164。 6、 洪瑞敏 , (2001) , 科技介入服務接觸之研究-以美髮服務為例 , 國立中山大學企業管理學系碩士論文。 7、 曹瓊文 , (2000) , 專業服務接觸、實體環境線索、性別刻板印象與顧客反應關係之研究-以牙科醫病互動性服務為例。 8、 凌儀玲(2000) , 服務接觸中認知腳本之研究 , 國立中山大學企業管理研究所博士論文。 9、 凌儀玲 , 黃俊英(1998) , 醫療服務接觸之劇場觀點 。 Hospital,第三十一卷 , 第五期 , 頁33-42。 10、 凌儀玲、黃俊英(民1999) , 醫療服務接觸之劇場觀點 , 醫院雜誌 , 第31卷第五期 , 頁33-42。 11、 陳曉菁(2001) , 服務技術接觸與顧客互動品質間關係之研究 以銀行服務為例高雄第一科技大學。 12、 黃偉松(2000) , 服務品質、顧客滿意度與顧客忠誠度關係之研究-以證券商為例 , 淡江大學管理科學學系碩士論文。 13、 黃俊英 , (1994) , 企業研究方法 , 台灣東華出版社。 14、 曾國烈(2000) , 我國電子金融業務發展現況及建議 , 經濟情勢暨評論季刊 , 第六卷第一期。 15、 楊雅惠 (1991) , 銀行業管制與營運行為之分析 , 基層金融 , 第22期。 16、 葉書芳 , 服務品質、關係品質以及服務補救與顧客行為意向關係之實證研究-以國內航空業為例 , 國立成功大學 , 工業管理科學系碩士班 , 2001。 17、 趙韶丰(2000) , 服務接觸滿意關鍵因素之研究 以餐飲業為例 , 中山大學企業管理研究所碩士文。 18、 熊丹鶯(2000) , 使用自助服務科技與服務缺失關聯性之研究 , 淡江大學管理科學學系碩士論文。 19、 劉菊梅 , (1998) , 了解顧客的需求 , 流通世界雜誌 , 第九十二卷 , 第十期 , PP.87-89。 20、 滕以勇(民1997) , 以人員服務接觸與顧客反應間關係之研究—以眼鏡業為例 , 國立中山大學企業管理研究所碩士論文 21、 劉慕慈(2001) , 證券承銷服務滿意關鍵因素之研究 , 大葉大學事業經營研究所碩士論文。 22、 盧宜屏(2000) , 我國銀行業因應WTO國際化要求之發展策略研究 , 義守大學 管理科學研究所碩士論文。 23、 關復勇(1998) , 服務接觸中關係品質知覺之研究 , 國立中山大學企業管理研究所未出版博士論文。 24、 藍德龍(2001) , 服務接觸型態、服務補救期望與服務補救後滿意度關係之研究 , 中國文化大學國際企業管理研究所碩士論文。貳、英文部份
 1. Anderson,E.W.and Sullivan,M.W., (1993) " The Antecedents and Consequences pf Customer Satisfaction for Firms ", Marketing Science ,vol.12, Spring:25-43. 2. Anderson, Ralph E., (1973) " Consumer Dissatisfaction: The Effect of Disconfirmed Expectancy on Perceived Product Performance : , Journal of Marketing Research,vol.10.Feb.:37-44 3. Anderson, E.W., Cales Fornell and Donald R. Lehmann, (1994) " Customer Satisfaction, Market Share, and Profitability Findings From Sweden " , Journal of Marketing, Vol.58, July, pp.53-66. 4. Bearden.W.O.and Teel.J.E., (1983) " Selected determinants of consumer satisfaction and complaint reports. " Journal of Marketing research.Vol.20, ,p.21-28. 5. Biggers Thompson and Bert Pryor (1982), " Attitude Change: A Function of the Emotion-Eliciting Qualities of Environment, " Personality and Social Psychology Bulletin, Vol.8 No.1: 94-99. 6. Bitner, Mary Jo, Bernard H. Booms, and Mary Stanfield Tetreault (1990), " TheService Encounter: Diagnosing Favorable and Unfavorable Incidents, " Journalof Marketing, vol.54 (January): 71-84. 7. Bitner,M.J. (1985) " Evaluating Service Encounter:The effects of Physical Surroundings and Employee Responses, " Journal of Marketing Research,Vol.49,Fall,P.41-50. 8. Bitner, Bernard, Mary Jo H. Booms, and Lois A. Mohr (1994), " Critical Service Encounters: The Employee ' s Viewpoint, " Journal of Marketing, vol.58 (October): 95-106. 9. Bitner, Mary Jo, and Stephen W. Brown (2000), " Technology Infusion in Service Encounters, " Journal of the Academy of Marketing Science, vol.28, No.1: 138-149. 10. Bitran, Gabriel and Lojo, Maureen, 1993, " A Framework for Analyzing the Quality of the Customer Interface " , European Management Journal, 11, pp.385-396, December. 11. Bolton, Ruth N and Drew ,James H.(1991), " A Multistage Model of Customers " Assessments of Service Quality and Value " , Journal of Consumer Research,17(March):375-384. 12. Buzzdil, Robert D. and Bradkey T.Gale, (1987) " The PIMS Principles " .NEW Youk:The Free Press. 13. Cardozo, (1965) " An Experimental Study of Customer Effort, Expection and Satisfaction " , Journal of Marketing Research, Vol.2, ,pp.244-249. 14. Chandon, Jean-Louis, Pierre-Yves Leo, and Jean Philippe (1997), " Service EncounterDimensions-A Dyadic Perspective: Measuring the Dimensions of ServiceEncounters as Perceived by "

Customers and Personnel," International Journal of Service, vol.8No.1:65-86. 15. Churchill, G.A. and C. Surprenant, (1982) " An Investigation into the Determinants of Customer Satisfaction ", Journal of Marketing Research, Vol.19, , pp.491-504. 16. Crosby,L.A.,KR. Evans and D.cowls (1990), " Relationship Quality in Service Selling:An Interpersonal Influence Perspective, " Journal of Marketing , 54(July),pp.68-81. 17. Cronin, J. J. Jr. & Taylor, S. A.(1992), " Measuring Service Quality: A Reexamination and Extension, " Journal of Marketing, 56(July), 55-68. 18. Czepiel,J ,A , M .R .Solomon, and C. F. Surprenant(1985), The Service Encounter Managing Employee/CUSTOMER Interaction in Service Businesses, Lexington, MA :Lexington Books. 19. Czepiel, J.A., (1974) " Perspective on Consumer Satisfaction, AMA Conference Proceedings, , pp.119-123. 20. Dabholkar (1994), " Technology-Based Service Delivery: A Classification Scheme for Developing Marketing Strategies ", Advances in Services Marketing and Management, vol. 3, Teresa A. Swartz, David E. Bowen, and Stephen W. Brown, eds. Greenwich, CT: JAI Press, pp.241-271. 21. ---,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), pp.29-51. 22. ---,2000, " Technology in Service Delivery: Implications for Self-Service and Service Support ", Handbook of Services Marketing and Management, Eds. Teresa A. Swartz and Dawn Iacobucci. Thousand Oaks, CA: Sage, pp.103-110. 23. 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. 24. ---, 1994, " Technology-Based Service Delivery: A Classification Scheme for Developing Marketing Strategies ", Advances in Services Marketing and Management, vol. 3, Teresa A. Swartz, David E. Bowen, and Stephen W. Brown eds. Greenwich, CT: JAI Press, pp.241-271. 25. Day, Ralph L., (1977) " Extending the Concept of Consumer Satisfaction ", Atlanta !G Association for Consumer Research, Vol.4, , pp.149-154. 26、Engel, James F., R.D. Blackwell and Paul W. Miniard, Consumer Behavior, 6th ed, 1984. 27、Evans J. R. & Lindsay W. M., 1999, " The Management And Control Of Quality (4th),South-Western.. 28、Fisk, R. P., & Coney, K. A. (1982). Postchoice evaluation: An equity theory analysis of consumer satisfaction / dissatisfaction with service choices. In H. K. Hunt & R. L. Day (Eds.), Conceptual and empirical contributions to consumer satisfaction and com-plaining behavior, (pp. 9-16). Bloomington, Indiana: Indiana University School of Business. 29、Fisk ,R.P.,S.W. Brown and M.J Bitner (1993), " Tracking the evolution of the services marketing literature ", Journal of Retailing :13-60. 30、Fisk, Raymond P.,(1999) , " Wiring and Growing the Technology of International Services Marketing ", Journal of Services Marketing, 13, pp.311-318. 31、Fitzsimmons, J. and M. Fitzsimmons (1998) , " CH.9:The Service Encounter " in Service Management :Operations ,Strategy , and Information Technology, 2 ed., Boston: Irwin/ McGraw Hill. 32、Fornell, C.,(1992) " A National Customer Satisfaction Barometer. The Swedish Experience ", Journal of Marketing, Vol.55, Jan,pp.1-22. 33、Giffin,J(1995).Customer Loyalty:How to Earn It,How to Keep It, Simmon and Schuster Inc,王秀華譯，忠誠顧客-如何培養如何保持。朝陽堂文化，台北，1996。 34、Globerson, S. and Maggard, M. J.(1991), " A Conceptual Model of Self-service, " International Journal of Operation & Production Management , Vol.11, No.4, pp.33-43. 35、Goodman,John.A.,boretzmann,Scott M.,Adamson and Colin (1992) , " Ineffective-That ' s the Problem with Customer Satisaction Surverys " Quality Progress (QPR),May:35-38. 36、Gronroos , C.(1984) , " A Service Quality Model and its Marketing Implications ", European Journal of Marketing ,Vol .4:121-125. 37、Guiry, Michael (1992), " Consumer and Employee Roles in Service Encounters, " Advances in Consumer Research, vol.19:666-672. 38、Howard, J.A. and J.N. Sheth, (1969) " The Theory of Buyer Behavior " ,New York.G.John Willey and Sons. 39、Hampel, Conald J., (1977) "Consumer Satisfaction with the Home Buying Process: Conceptualization and Measurement," in The Conceptualization of Consumer Satisfaction and Dissatisfaction, Marketing Science Institute, Cambridge, MA . 40、Heskett, J. L., T. O. Jones, G. W. Loveman, W. E. Jr Sasser & L. A. Schlesinger (1994). 41、Huppertz, J. W., Arenson, S. J., & Evans, R. H., (1978) " An application of equity theory to buyer-seller exchange situations, " Journal of Marketing Research, 15(5), , 250-260. 42、Jayasuriya, Rohan(1998), " Measuring Service Quality in IT Services: Using Service Encounters to Elicit Quality Dimensions, " Journal of Professional Services Marketing, Vol. 18(1), 11-23. 43、John A.Howard ,Cousumer Behavior(1979) :Application of Theory,中央圖書出版社 , p87。 44、John A. Miller, (1977) " Studying Satisfaction: Modifying Models, Eliciting Expectations. Posing Problems, and Making Meaningful Measurements, " in the Conceptualization of Consumer Satisfaction and Dissatisfaction ,H .Kieth Hunt (ed.),Cambridge ,Mass Marketing Science Institute, (Forthcoming). 45、John,T.O and W.Earl Sasser ,Jr.(1995), " Why Satisfied Customers Defect " ,Harvard Business Review ,73(6),pp.88-89. 46、Kasper, H. (1988), " On Problem Perception, Dissatisfaction and Brand Loyalty, " Journal of Economics Psychology, Vol.9, pp.87-97. 47、Kotler, P.,(1999). " Marketing Management " Analysis, Planning, Implementation and Control, 9th ed, Englewood Cliffs, NJ! GPrentice-Hall Inc. 48、Labvarbera. Preiscilla A. and David Mazusloy(1983) " A Longitudinal Assessment of counsmer satisfactiona/dissatisfaction: The Dynamic Aspect of the cognitive process , " Journal of Marketing Rwaearch .Vol.20.Nove,pp.393-404. 49、Lockwood, and Andrew (1994), " Using Service Incidents to I identify QualityImprovement Points, " International Journal of Contemporary HospitalityManagement, vol.6 (1,2): 75-80. 50、Lovelock, C. H. (1996), Service Marketing, 3rd ed., Prentice Hall, International Editions.Mattsson , 51、Meuter, MatthewL., Amy Ostrom, Robert Roundree, and Mary Jo Bitner,forthcoming(2000) " Self-service technologies: Understanding customer satisfaction with Technology-Base Service Encounter. " Journal of Marketing July. 52、Muller, (1991). Gaining Competitive Advantage through Customer Satisfaction, European Management Journal: 201-221. 53、Oliver, L. R., (1980). " A Cognitive Model of the Antecedents and Consequences of Satisfaction Decisions, " Journal of Marketing Research, VOL.17, PP.460-469, 54、Oliver, R.L., (1981) " Measurement and Evaluation of Satisfaction Processes in Retailing Setting ", Journal of Retailing, Vol.57, Fall, pp.25-48. 55、Ostrom, Amy and Iacobucci, Dawn(1995), " Consumer Trade-Offs and the Evaluation of Services ", Journal of Marketing, Jan, pp.17-28. 56、Parasuraman, Zeithaml, Valerie A., and Berry, Leonard L.,1985, " A Conceptual Model of Service Quality and its Implications for Future Research " , Journal of Marketing, 49,pp.47-58. 57、Parasuraman,A, Zeithaml, Valarie, and Berry, Leonard L, :

SERVQUAL : A multiple-Item Scale for Measure Consumer Perceptions of Service Quality " ,Journal of Retailing , vol . 64 , NO.1(spring 1988):13-41 58、 Parasuraman, A., Valarie. Zeithaml and Leonard L.Berry (1996) " The Behavioral Consequences of Service Quality " Journal of Marketing,Vol.60,4pp.31-46. 59、 Parasuraman, (2000), " Technology Readiness Index (TRI): A Multiple-Item Scale to Measure Readiness to Embrace New Technologies " , Journal of Service Research, 2,pp.307-320, May. 60、 Parasuraman and Grewal, Dhruv, (2000), " The Impact of Technology on the Quality-Value-Loyalty Chain: A Research Agenda " , Journal of the Academy of Marketing Science, 28,pp.168-174, Winter. 61 、 Price.Linda L.Eric J.Arnould ,&Patrick Tierney, (1995) " Going to Extremes: Managing Service Encounters and Assessing Provider Performance " ,Journal of Marketing Vol.59(April),83-97. 62、 Prus, A. and D. R. Brandt, " Understanding Your Customers, " Marketing Tools, Jul.-Aug 1995, pp.10-14. 63、 Rapeeporn Srijumpa,Mark Speece,Himangshu Pual (2002) , " Satisfaction drivers for internet service technology among stock brokerage customer in Thailand " ,Journal of Financial Service Marketing Vol.6.3.240-253. 64、 Rayport, J. F. and Sviokla, J. J.(1994), " Managing in the Marketspace, " Harvard Business Review, Nov.-Dec., pp. 2-11. 65、 Rayport, J. F. and Sviokla, J. J.(1995), " Exploiting the Virtual Value Chain, " Harvard Business Review, Nov.-Dec., pp.14-24. 66、 Rust, Roland T. and Zahorik, Anthony J., (1993) " Customer Satisfaction , Customer Retention Editions.,:171-201. 67、 Rust, R.T.,A.J.Zhorik ,and T.L.Keiningham(1995), " Return on quality (ROQ):Marking Service Quality Financially Accountable " ,Journal of Marketing .59(2),pp.58-70. 68、 Selnes, Fred (1993). An Examination of The Effect of Product Performance on Brand Reputation , Satisfaction and Loyalty. European Journal of Marketing , 27(9), 19-35. 69 、 Solomon,M .R., C.Surprenant, J.A.Czepiel, and E.Gutman (1985), " A Role Theory Perspective on Dyadic Interactions:The Service Encounter " ,Journal of Marketing,49,pp.99-111. 70、 Shostack,G.L.(1985) " Planning the Service Encounter " in The Service Encounter,J. A czepiel,M.R Solomon ,and C.F.Surprenant (eds),Lexington , MA: Lexington Books . 71、 Singh, Jagdip, (1991) " Understanding the Structure on Consumer Satisfaction Evaluation of Service Delivery " , Journal of the Academy of Marketing Science, Vol.19, , pp.223-234. 72、 Stum, D. L & Alain Thiry (1991) , " Building Customer Loyalty, " Training and Development Journal, Vol.45, pp.34-36. 73、 Weiner, R. E. (1985). The environmental psychology of service encounter, in the service encounter, czepiel, J. Lexington MA: a. Lexington Books: 101-112. 74、 Westbrook.R.A., " (1980)An exploratory study of nonproduct q-related influences upon consumer satisfaction , " Advances in Consumer Research,Vol.7, ,P.577-581. 75、 Woodside ,A.H. frey .L.and Daly,R.T.(1989). " Linking Service Quality ,Customer Satisfaction, and Behavioral Intention:,Journal of Care Marketing ,Dec:5-17. 76、 Woodruff, R . B .et al. (1983), " Modeling consumer satisfaction process using experience based norms,:Journal of Marketing Research,Vol.20, ,P296-304 77、 Zeithaml , Valarie A., and Mary Jo Bitner(1996),Services Marketing.30-51.