

Evaluation of the Implementation, Use and Effect of
A Computerized Management Information System
In College of Business Universiti Utara Malaysia

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ABSTRACT

Using the theory acceptance model as its basis, this study is to identify the relationships among perceived usefulness, perceived ease of use and computerized implementation. Furthermore, for body of knowledge, this study will present the clear description of information technology implementation such as internet among university staff, lecturer and students. The significance of this research also to apply the TAM in the context of computerized acceptance to the management information system in college of business. This study proposes the usefulness and ease of use as the construct to enhance the understanding of an individual's acceptance behavior of ICT in COB of UUM context. Technology acceptance model plays an important role in the computerized management information system.

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CHAPTER 1

INTRODUCTION

1.1 Background of the Study

Information and Communications Technologies (ICT) are radically changing the competitiveness of organizations. The Internet is revolution the way business is done due to technological developments in the area of ICT. The use of the Internet along with a range of other (ICT) is transforming how business is done locally and globally (Payne, 2001). The internet is linked with network of computer; it is valuable, powerful, and fast growing business tool because it is flexible, economical, and easy to use. The emergence and the popularity of the internet allow business to get more effective and efficient.

The advent of the personal computer and the Internet has inevitably changed the way we live. These technologies, as well as others, have altered the method in which people work, communicate, shop, and even learn. Distance education, a form of education traditionally associated with correspondence courses, has benefited greatly from the new technological devices of the 21st century (Davis, 1989). Today, communication tools such as e-mail, satellite connections, and video conferencing software have provided educators with the tools to provide synchronous as well as asynchronous communication with their students (Davis & Bostrom, 1993).

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REFERENCES

Ajzen, I. (1991), "The Theory of Planned Behavior", *Organizational Behavior and Human Decision Processes*, Vol. 50, Iss. 2, 179-212.

Ajzen, I. (1985), "Constructing a TPB Questionnaire: Conceptual and Methodological Considerations"
Available: <http://wwwunix.oit.umass.edu/~aizen/pdf/tpb.measurement.pdf> [2005, July 13]

Ajzen, I. (2002), "Residual Effects of Past on Later Behavior: Habituation and Reasoned Action Perspectives", *Personality and Social Psychology Review*, Vol. 6, No. 2, 107-122.

Bandura, A. (1977), "Self-efficacy: toward a unifying theory of behavioral change", *Psychological Review*, Vol. 84 No. 2, 191-215.

Bandura, A. (1982), "Self-efficacy mechanism in human agency", *American Psychologist*, Vol. 37, 122-47.

Davis, F.D. (1989), "Perceived usefulness, perceived easy of use, and user acceptance of information technology", *MIS Quarterly*, September, 319-40.

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.

Davis, L. D., & Davis, D. F. (1990). The effect of training techniques and personal characteristics on training end-users of information systems. *Journal of Management Information Systems*, 7(2), 93-110.

Davis, S. A., & Bostrom, R. P. (1993). Training end users: An experimental investigation of the roles of the computer interface and training methods. *MIS Quarterly*, 17(1), 61-85.

Damien H and Matthew Warren (2003), *Journal of Logistic Information Management* 16,1. 64-73. Damien Hutchinson and Matthew Warren.

Doll, W.J., Hendrickson, A. and Deng, X. (1998), "Using Davis's perceived usefulness and ease-of-use instruments for decision making: a confirmatory and multi-group invariance analysis", *Decision Science*, Vol. 29 No. 4, pp. 839-69.

Enders A, Konig A, Jelassi T and Hungenberg (2006), The Relativity of Disruption: E-Banking As A Sustaining Innovation in The Banking Industry, *Journal of Electronic Commerce Research* 7,2. 67-78

Eriksson K, Kerem K and Nilsson D (2005), Customer Acceptance of Internet Banking in Estonia, *International Journal of Bank Marketing* 23,2. 200-216.

Fishbein, M., Ajzen, I. (1975), *Belief, Attitude, Intention and Behavior: An Introduction to Theory and Research*, Addison-Wesley, Reading, MA, .

Flavian C, Guinnaliu M and Torres E (2005), The Influence of Corporate Image on Consumer Trust: A Comparative Analysis in Traditional Versus Internet Banking, *Internet Research Bradford* 15,4. 447-451.

Febraban (2004), available at: www.febraban.com.br/Arquivo/Servicos/Dadosdosetor/tecnologia_2005_dadossetor.asp (accessed April 15, 2006).

Ganesan, S. (1994), "Determinants of long-term orientation in buyer-seller relationships", *Journal of Marketing*, Vol. 58 No. 2, pp. 1-19.

Harrison, A.W., Rainer, R.K. Jr (1992), "The influence of individual differences on skill in end-user computing", *Journal of Management Information Systems*, Vol. 9 No.1, pp.93-111

Hair, J., Black, B. Babin, B., Anderson, R. and Tatham, R. (2006). Multivariate Data Analysis (6th edition). Upper Saddle River, NJ: Prentice-Hall.

Hoffman, D.L., Novak, T.P. and Peralta, M. (1999), "Building consumer trust online", *Comuunications of the ACM*, Vol. 42 No. 4, pp. 80-5.

Hong, W., Thong, J.Y.L., Wong, W.M., Tam, K.Y. (2001), "Determinants of user acceptance of digital libraries: an empirical examination of individual differences and system characteristics", *Journal of Management Information Systems*, Vol. 18 No.3, pp.97-124

Hutchinson D and Warren M (2003), Security for Internet Banking: a Framework, *Journal of Logistic Information Management* 16,1. 64-73.

Lederer, A.L., Maupin, D.J., Sena, M.P. and Zhuang, Y. (1998), "The role of ease of use, usefulness and attitude in the prediction of World Wide Web usage", *Proceedings of the 1998 Association for Computing Machinery Special Interest Group on Computer Personnel Research Conference*, 195-204.

Mathieson, K. (1991), "Predicting user intentions: comparing the technology acceptance model with the theory of planned behavior", *Information Systems Research*, Vol. 2 No. 3, 173-91.

Sekaran, U (2003), Research Methods for Business, New York, Wiley & Sons, Inc

Succi, M.J. and Walter, Z.D. (1999), "Theory of user acceptance of information technologies: an examination of health care professionals", Proceedings of the 32nd Hawaii International Conference on System Sciences (HICSS), 1-7.

Taylor, S. and Todd, P.A. (1995), "Understanding information technology usage: a test of competing models", *Information Systems Research*, Vol. 6 No. 2, 144-76.

Venkatesh, V. and Davis, F.D. (2000), "A theoretical extension of the technology acceptance model: four longitudinal field studies", *Management Science*, Vol. 45 No. 2, 186-204.

Venkatesh, V., Morris, M.G., Davis, G.B. and Davis, F.D. (2003), "User acceptance of information technology: toward a unified view", *MIS Quarterly*, Vol. 27 No. 2, 425-78.