

C.V. for Dr. CHAN Hock Chuan
(Feb 2008)

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Degree:

B.A. Hon. and M.A. (Engineering) Cambridge University
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Selected Publications

Journals

1. Goswami, S., Chan, H.C. and H.W. Kim, The role of visualization tools in spreadsheet error correction from a cognitive fit perspective, *Journal of the Association for Information Systems* (accepted 2008)
2. Lin, J. and H.C. Chan. Understanding the beliefs and intentions in search and purchase functions in an e-commerce website. *IEEE Transactions on Engineering Management*. (accepted 2007)
3. Chan, H.C. and H.H. Teo, Evaluating the boundary conditions of the technology acceptance model: an exploratory investigation. *ACM Transactions on Computer-Human Interaction*, 14, 2, Article 9 (August 2007), 22 pages.
4. Kim, HW, H.C. Chan and YP Chan, A balanced thinking-feelings model of information systems continuance. *International Journal of Human-Computer Studies*, 65, 511-525, 2007.
5. Kim, H., Chan, H.C. and S. Gupta, Value-based Adoption of Mobile Internet. *Decision Support System*, 43, 111-126, 2007.
6. Teo, H.H., Chan, H.C. and K.K. Wei, Performance effects of formal modeling language differences: A combined abstraction level and construct complexity analysis. *IEEE Transactions on Professional Communication*, 49(2), 160-175, 2006.
7. Lin, J., Chan, H.C. and K.K. Wei, Understanding competing application usage with theory of planned behavior. *Journal of the American Society for Information Science and Technology*. 57(10), 1338-1349, 2006.
8. Chan, H.C., Kim, H. and W.C. Tan, Information systems citation patterns from International Conference on Information Systems articles. *Journal of the American Society for Information Science and Technology*, 57(9), 1263-1274, 2006.
9. Santosa, P. I., Wei, K.K. and H.C. Chan, User involvement and user satisfaction with information seeking activity. *European Journal of Information Systems*, 2005, 14(4) 361-370.
10. Chan, H.C., Teo, H.H., and Zeng, X.H. An evaluation of novice end-user computing performance: Data modeling, query writing and comprehension. *Journal of the American*

Society for Information Science and Technology, 2005, 56(8) 843-853.

11. Chan, H.C. and Y. Wang, Human factors in color-based image retrieval: An empirical study on size estimate accuracies. *Journal of Visual Communication and Image Representation*, 2004, (15) 113-131.
12. Siau, K.L., Chan, H.C., and K.K. Wei, Effects of query complexity and learning on novice user query performance with conceptual and logical database interfaces. *IEEE Transaction on Systems, Man and Cybernetics, Part A: Systems and Humans*, 2004, 34(2) 276-281.
13. Teo, H.H., Chan, H.C., Wei, K.K. and Z.J. Zhang. Evaluating information accessibility and community adaptivity features for sustaining virtual learning communities. *International Journal of Human Computer Studies*, 2003, 59(5) 671-697.
14. Laku C., Lim, J., Chan, H.C. and K. Han, An empirical evaluation of organizational media use in Singapore. *Journal of Global Information Technology Management*, 2001, 4(1) 27-44.
15. Soong, M.H.B., Chan, H.C., Chua, B.C., and K.F. Loh, Critical success factors for on-line course resources. *Computers and Education*, 2001, 36(2) 101-120.
16. Chan, H.C., Chen, Y. and C.B. Peh, Strategien en visualisatie tools voor een verbeterde gebruikersaudit van spreadsheetmodellen (In Dutch). *IT Management Select*, 2001, 4, 50-60.
17. Chan, H.C., Chen, Y, and C.B. Peh, Strategies and visualization tools for enhancing user auditing of spreadsheet models. *Information and Software Technology*, 2000, 42(15), 1037-1043.
18. Chan, H.C., Tan, B.C.Y. and K.K. Wei, Three important determinants of user performance for database retrieval. *International Journal of Human-Computer Studies*, 1999, 51(5), 895-918.
19. Chan, H.C., The relationship between user query accuracy and lines of code. *International Journal of Human-Computer Studies*, 1999, 51(5), 851-864.
20. Chan, H.C. and Lee, S.L. Support for mobile communications planning. *Decision Support Systems*, 1998, 23(2) 97-110.
21. Chan, H.C. and Lim, L.H. Database Interfaces: A conceptual framework and a meta-analysis on natural languages studies. *Journal of Database Management*, 1998, 9(3) 25-32.
22. Dhaliwal, J.S. and Chan, H.C., A hypermedia system for teaching database design task. *Education and Information Technologies*, 1997, 2(1) 47-63.
23. Chan, H.C. and K.K. Wei, The effect of grading schemes on outcomes in query writing experiments. *Interacting with Computers*, 1996, 8(1) 7-12.
24. Chan H.C., Naturalness of graphical queries based on the entity relationship model. *Journal of Database Management*, 1995, 6(3) 3-13.
25. Wu, C.Z., Chan, H.C., Teo, H.H. and Wei, K.K., An experimental study of object-oriented query language and relational query language for novice users. *Journal of Database Management*, 1994, 5(4) 16-27.
26. Chan, H.C., Wei, K.K. and Siau, K.L. An empirical study on end users' update performance for different abstraction levels. *International Journal of Human-Computer Studies*, 1994, 41(7) 309-328.
27. Lu, H.J., Chan, H.C., Wei, K.K., A survey on usage of SQL. *SIGMOD Record*, ACM Special Interest Group on Management of Data, 1993, 22(4) 60-65.
28. Chan, H.C., Wei, K.K. and Siau, K.L. User-database interface: The effect of abstraction levels on query performance. *MIS Quarterly*, 1993, 17(4) 441-464.

Conferences

1. Chan, H.C., Kim, H.W., & Goswami, S. An alternative mechanism for the cognitive fit theory in spreadsheet analysis, *International Conference of Information Systems*, 2007.
2. Goswami, S., Chan, H.C. and H.W. Kim, Spreadsheet Error Detection using an Activity Framework and a Cognitive Fit Perspective. *International Conference on Information Systems*,

- 695-710, 2006.
3. Lin, J., Chan, H.C. and K. K. Wei, The Effects of Goal Orientation on Knowledge Sourcing, Knowledge Management System Usage and Learning Outcome. *Proceedings of the 14th European Conference on Information Systems*, 2006.
 4. Santosa, P.I., Wei, K.K. and H.C. Chan, Student Involvement with Online Forum and its Effects on Intention to Seek and Intention to Share: An Exploratory Study. *Pacific Asia Conference on Information Systems*, 2005, 1172-1184.
 5. Kim, H., Chan, H.C., Chan, Y.P. and Gupta, S. Understanding the Balanced Effects of Belief and Feeling on Information Systems Continuance, *Information Conference on Information Systems*, 2004.
 6. Chan, H.C., Spreadsheet Visualization Effects on Error Correction, *Proceedings of the 3rd Annual Workshop on HCI Research in MIS (SIGHCI)*, 2004.
 7. Tan, C.H., Chan, Y.P., Yang, X., Chan, H.C. and H.H Teo, Effects of Choice Contrast and Order Sequence on Consumer Judgment and Decision in Comparison-Shopping Assisted Environment. *Proceedings of the 3rd Annual Workshop on HCI Research in MIS (SIGHCI)*, 2004.
 8. Chan, H.C., Teo, H.H., Yang, J. and Li, Y. The Technology Acceptance Model for Competitive Software Products, *Proceedings of the Eighth Pacific Asia Conference on Information Systems*, 2004, 1848-1855.
 9. Lin, J., Chan, H.C. and Jin, Y. Instant Messaging Acceptance and Use Among College Students, *Proceedings of the Eighth Pacific Asia Conference on Information Systems*, 2004, 181-194.
 10. Santosa, P.I., Wei, K.K. and Chan, H.C. An Empirical Study on User Involvement: A PLS Approach, *Proceedings of the Eighth Pacific Asia Conference on Information Systems*, 2004, 764-777.
 11. Chan, C.M.L., Bhandar, M., Oh, L.-B., and H.C. Chan, Recognition and Participation in a Virtual Community, In *Proceedings of the 37th Hawaii International Conference on System Sciences (HICSS)*, 2004, 194-203.
 12. Lin, J. and H.C. Chan, Function-based Analysis of an E-commerce Website, *Proceedings of the 24th Annual International Conference on Information Systems*, 2003, 475-484.
 13. Chan, H.C. and L. Xiang, Evaluation of the Impacts of Data Model and Query Language on Query Performance, *Proceedings of the Second Annual Workshop on HCI Research in MIS*, 2003, 75-79.
 14. Chan, H.C., Lam-Hang, J.S., Teo, H.H. and J. Yang, Testing the Boundaries of the Technology Acceptance Model, *Information Technology and Organizations: Trends, Issues, Challenges and Solutions, Proceedings of IRMA International Conference*, 2003, 57-60.
 15. Zheng, X., Zhang, C. and H.C. Chan, Individual Behavioral Consistency in Virtual Communities, *Information Technology and Organizations: Trends, Issues, Challenges and Solutions, Proceedings of IRMA International Conference*, , 2003, 716-718.
 16. Teo, H.H., Wan, W., Chan, H.C. and C.Y. Lim, Bridging the Digital Divide: The Effects of Home Computer Ownership and School IT Environment on Self-directed Learning. In *Proceedings of the 23rd Annual International Conference on Information Systems*, 2002, 641-650.
 17. Wang, H., Xu, H., Chan, H.C. and L. Chen, Critical Success Factors for Web-Based Organizational IT Training Systems, in J. Fong, C.T. Cheung, H.V. Leong, Q. Li (Eds.): *Advances in Web-Based Learning, proceedings of ICWL 2002, LNCS 2436*, Springer-Verlag Berlin Heidelberg, 2002, 412-153.
 18. Chen, Y. and H.C. Chan, Visual Checking of Spreadsheets, *EuSpRIG 2000 Symposium on Spreadsheet Risks, Audit and Development Methods*, 2000, 75-85.
 19. Chen, Y. and H.C. Chan, An Exploratory Study of Spreadsheet Debugging Processes, *4th Pacific Asia Conference on Information Systems*, 2000, 143-155.

20. Chiu, S. M. and H.C. Chan, The Effect of Language on CAI Learning, in G. Cumming et al. (Eds.) *Advanced Research in Computers and Communications in Education, New Human Abilities for the Networked Society*, Volume 2 (7th International Conference on Computers in Education), IOS Press, Netherlands, 199, 109-116.
21. Tan W.P and H.C. Chan, A TAM-based Assessment of Videoconferencing for Remote Tutoring, *Proceedings of the Association of Information Systems 1998 Americas Conference, AIS'98*, 1998, 1094-1096.
22. Laku, C., Lim, L.H. and H.C. Chan, The Media Coexistence Approach, A Study of Organizational and Individual Determinants of Media Choice in Singapore, *Thirty-First Hawaii International Conference on System Sciences (HICSS-31)*, 1998, I:118-I:125.
23. Lee, S.L. and Chan, H.C., Support for Mobile Communications Planning, *First Asia Pacific Decision Sciences Institute Conference Proceedings Volume 2*, (eds. H.G. Lee and K.Y. Tam), 1996, 815-823.
24. Siau, K.L., Chan, H.C., and K.K. Wei, The Effects of Conceptual and Logical Interfaces on Visual Query Performance of End-Users, 16th Annual International Conference on Information Systems, 1995, 225-236.
25. Dhaliwal, J.S. and Chan, H.C., A hypertext-based Workbench for Supporting Object-oriented Data Modeling, *Proceedings of the Information Technology Management Group: Association of Management 13th Annual International Conference*, 1995, 78-93.
26. Jarzabek, S., Shen, H. and Chan H.C., A Hybrid Program Knowledge Base System for Static Program Analyzers, *APSEC '94, Asia Pacific Software Engineering Conference*, 1994, 400-409.
27. Chan H.C., Tan, B.C.Y. and Wei, K.K., The Query Cube: A Framework for Assessing User Productivity with Database Information Retrieval, *Fifteen Annual International Conference on Information Systems*, 1994, 61-71.
28. Chan, H.C., Further Evolution of Semantic Data Models, *Proceedings of 1993 Pan Pacific Conference on Information Systems*, 1993, 307-311.
29. Chan, H.C., An Entity-Relationship Enhanced Logic System, In *Advanced Database Research and Development Series, Vol. 2, Database Systems for Advanced Applications 1991*, (ed) A. Makinouchi, 401-410.
30. Chan, H.C, Wei, K.K., Siau K.L., Conceptual Level versus Logical Level User-Database Interaction, *Proceedings of the twelfth International Conference on Information Systems*, Ed. J.I. DeGross, I. Benbasat, G. DeSantis, and C.M. Beath, 1991, 29-40.

Book / Book Chapter

1. Chan, H C and L H Lim, A Review of Experiments on Natural Language Interfaces. In K. Siau (ed) *Advanced Topics in Database Research*, Volume 2, IDEA Group Publishing, Hershey, PA, USA, 2003, 55-72.
2. Chan, H C, Relational and Entity Relationship Database Query. In *Encyclopedia of Library and Information Science*, Second Edition eds. M.J. Bates, M.N. Maack, M. Drake, Marcel Dekker Inc, New York, USA, 2003, 2479-2493.
3. Chan, H.C., Tan, B.C.Y. and W.P. Tan, A Case study of Video-Conferencing Education over the Internet, in M. Khosrow-Pour (ed), *Web-Based Instructional Learning*, IRM Press, Hershey, USA, 2002, 275-299.
4. Chan, H.C., *Easy Steps to Design & Check Your Excel Spreadsheets*, Federal Publications, 2001.
5. Chan, H.C. and S.L. Lee, Mobile Communications Planning Support System, *Encyclopedia of Computer Science and Technology*, Allen Kent, James G. Williams, editor, Marcel Dekker, Inc., New York, USA. Volume 44, Supplement 29, 279-297, 2001.
6. Chan, H.C. and K.K. Wei, User Query Performance with Database Feedback, in *Vol. 22*,

Supplement 1, Encyclopedia of Microcomputers, edited by A. Kent and J. G. Williams, 365-389, Marcel Dekker Inc., 1999, USA.

Professional Activities

Associate Editor / Member of Editorial Board for
Journal of Database Management
Journal of Electronic Commerce Research
MIS Quarterly

Guest editor for
Journal of Electronic Commerce Research for 2005
IEEE Transactions on Professional Communications 2005/6

Co-chair for HCI Track in PACIS 2005
Member of Program Committee or Organizing Committee for these conferences: APSEC, ER, PACIS, ICIS, pre-ICIS HCI Workshop, IRMA, APCHI, APDSI, ICAST, GCCCE and EMMSAD.

Reviewer for journals: B&IT, C&E, DSS, IJHCS, ISR, IST, JAIS, MISQ, IEEE Computer and CJ.

University and Professional Teaching Activities

Information systems, computer mediated communication, database, case study research, spreadsheet visualization, human-computer interaction, hci research in the MIS field.

Current Research Interest

Spreadsheet visualization & debugging
User-database interaction
Studies on information system acceptance
Effects of information systems