

PUBLICATIONS

Peer-Reviewed Works

- Peer-Reviewed Journal Articles

1. Kang, Y., Wang, Y., **Zhang, D.**, and Zhou, L. (2017). The Public's Opinions on a New School Meals Policy for Childhood Obesity Prevention in the U.S.: A Social Media Analytics Approach. *International Journal of Medical Informatics*. 103:83-88. doi: 10.1016/j.ijmedinf.2017.04.013.
2. Wang, Y., Xue, H., Huang, Y., Huang, L., **Zhang, D.** (2017). A Systematic Review of Application and Effectiveness of mHealth Interventions for Obesity and Diabetes Treatment and Self-Management. *Advances in Nutrition*. 8(3):449-462.
3. **Zhang, D.**, Zhou, L., Uchidiuno, J., and Kilic, I. (2017). Personalized Assistive Web for Improving Mobile Web Browsing and Accessibility for Visually Impaired Users. *ACM Transactions on Accessible Computing*. 10(2), article 6.
4. Lai, J. and **Zhang, D.** (2016). ContextZoom: A Single-Handed Partial Zooming Technique for Touch-Screen Mobile Devices. *International Journal of Human-Computer Interaction*. 33(6): 475-485.
5. **Zhang, D.**, Zhou, L., Kehoe, L. J., and Kilic, I. (2016). What Online Reviewer Behaviors Really Matter? A Study of Effects of Verbal and Nonverbal Behaviors on Online Fake Review Detection. *Journal of Management Information Systems*. 33(2). p.456-481
6. Zhou, L., Kang, Y., **Zhang, D.** and Lai, J. (2016). Harmonized Thumb Stroke Based User Authentication for Touch-screen Mobile Phones. *Decision Support Systems*. 92, 14-24.
7. Yan, Z., Xing, M., **Zhang, D.**, and Ma, B. (2015). EXPRS: An Extended PageRank Method for Product Feature Extraction from Online Consumer Reviews. *Information & Management*. 52, 850-858.
8. Lai, J. and **Zhang, D.** (2015). ExtendedThumb: A Target Acquisition Approach for One-Handed Interaction With Touch-Screen Mobile Phones. *IEEE Transactions on Human-Machine Systems*. June 2015, p.362-370.
9. **Zhang, D.**, Jangam, A., Zhou, L. & Yakut, I. (2015). Context-Aware Multimedia Content Adaptation for Mobile Web. *International Journal of Networked and Distributed Computing*. 3(1), p.1-10
10. **Zhang, D.**, Yan, Z., Jiang, H., and Kim, T. (2014). A Domain-Feature Enhanced Classification Model for Detection of Phishing E-Business Websites. *Information & Management*. 51(7), 845-853.
11. Zhou, L., Wu, J., & **Zhang, D.** (2014). Discourse Features of Deception Behavior in the Case of Multiple Receivers. *Information & Management*. 51(6): 726-737.
12. **Zhang, D.**, Lai, J., & Dash, A. (2014). An Empirical Investigation of the Use of Emulators in Mobile Web Research. *Journal of Computer Information Systems*. 54(3): p.67-76.
13. Ma, B., **Zhang, D.**, Yan, Z., & Kim, T. (2013). An LDA and Synonym Lexicon based Approach to Product Feature Extraction from Online Consumer Product Reviews. *Journal of Electronic*

- Commerce Research*. 14(4), p. 304-314.
14. Zhou, L., Song, Y., and **Zhang, D.** (2013). Deception performance in online group negotiation and decision making: the effects of deception experience and deception skill. *Group Decision & Negotiation*. 22(1), p.153-172
 15. Zhou, L., **Zhang, D.** and Song, Y. (2013). The effects of group factors on deception detection performance. *Small Group Research*. 44(3), p.272-297.
 16. Zhou, L. and **Zhang, D.** (2012). Automatic Deception Detection in Computer-Mediated Communication. *IEEE Intelligent Systems*. Nov./Dec., p. 73-75.
 17. Zhou, L., Mohammed, A. S., **Zhang, D.**(2012). "Mobile Personal Information Management Agent: Supporting Natural Language Interface and Application Integration." *Information Processing & Management*.48(1), pp.23-31.
 18. **Zhang, D.**, H. Chou, and L. Zhou (2012), Hype or Ready for Prime Time? Speech Recognition on Mobile Handheld Devices (MASR), *International Journal of Handheld Computing Research (IJHCR)*, 2012, 3(4), Oct.-Dec., pp. 40-55.
 19. **Zhang, D.**& Lai, J. (2011). Can Convenience and Effectiveness Converge in Mobile Web? A Critique of the State-of-the-Art Adaptation Techniques for Mobile Web. *International Journal of Human-Computer Interaction*. 27(12), pp. 1133-1160.
 20. Adipat, B., **Zhang, D.** & Zhou, L. (2011). The Effects of Tree-View Based Presentation Adaptation on Mobile Web Browsing. *MIS Quarterly*. 35(1), p.99-121.
 21. Koru, A. G. & Liu, H, **Zhang, D.**, & Emam, K.E. (2010). Testing the Theory of Relative Defect Proneness for Closed-Source Software. *Journal of Empirical Software Engineering*. 15(6), p.577-598.
 22. **Zhang, D.**& Shrestha, P. (2010). Doing Business in Second Life: e-Commerce in a 3D Online Environment. *International Journal of Electronic Business*. 8(2), 148-169.
 23. Lowry, P., **Zhang, D.**, Zhou, L. & Fu, X. (2010). Effects of Culture, Social Presence, and Group Composition on Trust in Technology-Supported Decision-Making Groups. *Information Systems Journal (ISJ)*. 20, 297-315.
 24. Koru, A. G, **Zhang, D.**, Emam, K.E., & Liu, H (2009). An Investigation into the Functional Form of the Size-Defect Relationship for Software Modules. *IEEE Transactions on Software Engineering (TSE)*. March/April, 35(2), pp. 293-304.
 25. **Zhang, D.**, Adipat, B. & Mowafi, Y. (2009). User-Centered Context-Aware Mobile Applications—The Next Generation of Personal Mobile Computing. *Communications of the AIS*. 24, pp.27-46.
 26. Koru, A. G, Emam, K.E., **Zhang, D.**, & Liu, H. (2008). Theory of Relative Defect Proneness: Replicated Studies on the Functional Form of the Size-Defect Relationship for Software Modules. *Journal of Empirical Software Engineering*. Springer Netherlands. 13: 473-498.
 27. Zhou, L., Shi, Y, and **Zhang, D.** (2008). A Statistical Language Modeling Approach to Online Deception Detection. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*. 20(8): pp.1077-1081.
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- Geriatric Physical Therapy*. 31(2), pp.71-78.
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 31. **Zhang, D.**, P.B. Lowry, L. Zhou, and X. Fu (2007). The Impact of Individualism-collectivism, social presence, and group diversity on group decision making under majority influence, *Journal of Management Information Systems (JMIS)*. 23(4), pp. 53–80.
 32. Zhou, L. &**Zhang, D.** (2007). An Ontology-supported Misinformation Model: Toward a digital misinformation library. *IEEE Transactions on Systems, Man, and Cybernetics (Part A)*. 37(5), Sept. 2007. pp. 804-813.
 33. **Zhang, D.** (2007). Web Content Adaptation for Mobile Handheld Devices. *Communications of the ACM (CACM)*. February 2007, 50(2), pp. 75-79.
 34. Zhou, L. &**Zhang, D.** (2007). Typing or Messaging? Modality Effect on Deception Detection in Computer-mediated Communication. *Decision Support Systems*. 44, pp.188-201.
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 37. Zhou, L., Shi, Y., **Zhang, D.** & Sears, A. (2006). Discovering Cues to Error Detection in Speech Recognition Output: A User-Centered Approach. *Journal of Management Information Systems (JMIS)*. 22(4), pp.237-270.
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 39. Zhou. L. &**Zhang, D.** (2006). A comparison of deception behavior in dyad and triadic group decision making in synchronous computer-mediated communication. *Small Group Research*. 37(2), pp. 140-164.
 40. Chiang, W. Y., **Zhang, D.**, Zhou, L. (2006). Predicting and Explaining Patronage Behavior toward Web and Traditional Stores Using Neural Networks: A Comparative Analysis with Logistic Regression. *Decision Support Systems*. 41(2), pp. 514-531.
 41. Chen, Y., Zhou, L. &**Zhang, D.** (2006).Ontology-Supported Web Service Composition — An Approach to Service-Oriented Knowledge Management in Corporate Financial Services. *Journal of Database Management (JDM)*. Vol. 17, No. 1, pp. 67-84.
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43. **Zhang, D.**, Chen, M. & Zhou, L. (2005). Dynamic and Personalized Web Service Composition in E-Business. *Information Systems Management*. 22(3), pp.50-65.
44. **Zhang, D.** (2005). Interactive Multimedia-Based E-Learning: A Study of Effectiveness. *The American Journal of Distance Education (AJDE)*. Lawrence Erlbaum Associates, Inc. Mahwah, NJ. 19(3), 149-162.
45. **Zhang, D.** and Adipat, B. (2005). Challenges, methodologies, and issues in the usability testing of mobile applications. *International Journal of Human Computer Interaction*. 18(3), pp. 293-308, Lawrence Erlbaum Associations, Inc.
46. **Zhang, D.** (2005). Web Services Composition for Process Management in E-Business. *Journal of Computer Information Systems*. Vol. XLV, No. 2, pp. 83-91
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50. **Zhang, D.**, Zhao, J. L., Zhou, L. & Nunamaker, J. (2004). Can E-Learning Replace Traditional Classroom Learning? — Evidence and Implication of the Evolving E-Learning Technology. *Communications of the ACM*. 47(5), pp.75-79.
51. Zhou, L., Chiang, W. & **Zhang, D.** (2004). Discovering rules for predicting customers' attitude toward Internet retailers. *Journal of Electronic Commerce Research*, 5(4), pp. 228-238.
52. **Zhang, D.** (2004). Virtual Mentor and the LBA System — Towards Building An Interactive, Personalized, and Intelligent E-Learning Environment. *Journal of Computer Information Systems*. XLIV(3), pp.35-43.
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- **Peer-reviewed Conference Papers**

61. Lai, J., **Zhang, D.**, Wang, Zhou, L. (2017). A Stroke-based Virtual Keyboard for Sight-Free Text Entry on Touch-Screen Mobile Devices. HICSS-51. Jan. 3-6, Hawaii, USA.
62. **Zhang, D.**, Kang, Y., Zhou, L. and Lai, J. (2016). Continuous User Authentication on Touch-screen Mobile Devices: Toward More Secure and Usable M-Commerce. The Fifteenth Workshop on e-Business (WeB 2016). Dec. 10, 2016. Dublin, Ireland.
63. **Zhang, D.**, Jiang, Y., Huang, L., Wang, Y., Fink, J., Zhou, L. (2016). QRM: A QR-Code Based mHealth Information System for Patient-centered Care: Toward Ubiquitous and Secured Medical Information Access and Personalized Patient Education. Proceedings of the 15th International Conference on WWW/Internet (ICWI 2016). October 28-30, 2016. Mannheim, Germany.
64. Alasmari, A., Zhou, L., and **Zhang, D.**(2015). Improving mobile web search by clustering and visualizing search engine results. Proceedings of the 17th International Conference on Human-Computer Interaction with Mobile Devices and Services (Mobile HCI'15). P. 680-687.
65. Wang, Y., Xue, H., Huang, Y., **Zhang, D.**, and Qu, W. (2015). Applications of mHealth in supporting obesity and diabetes patient health care. The Obesity Society (TOS) Annual Meeting (ObesityWeek). Abstract. Nov. 2-6, 2015. Los Angeles, California, USA.
66. Zhou, L., Kang, Y., **Zhang, D.**, and Wang, Y. (2015). Automatic Detection of Public Opinions on School Meal Policy in the U.S. 1st International Congress on Childhood Obesity and Hypertension. Poster. Beijing, China.
67. Lai, J. and **Zhang, D.** (2015). A Single-Handed Partial Zooming Technique for Touch-Screen Mobile Devices. The 21st Americas Conference on Information Systems. August 13-15, 2015. Puerto Rico.
68. Kilic, D, **Zhang, D.**, Zhou, L., Uchidiuno, J., and Lai, J. (2015).PRECMAS: A Personalized, Cloud-based Integrative Approach to Mobile Web Adaptation. The 21st Americas Conference on Information Systems. August 13-15, 2015. Puerto Rico.
69. Wu, D., Lowry, P., **Zhang, D.** (2015). Patient Compliance Behavior in a Mobile Healthcare System: An Integration of Theories of Rational Choice and Planned Behavior. Hawaii International Conference on Systems Sciences (HICSS 2015). January 5-8, 2015. Hawaii.
70. Lowry, P., **Zhang, D.**, and Wu, Dezhi (2014). "Understanding Patients' Compliance Behavior in a Mobile Healthcare System: The Role of Trust and Planned Behavior". International Conference on

- Information Systems (ICIS 2014). Dec. 14-17, 2014. Auckland, New Zealand.
71. Yan, Z., Xing, M., **Zhang, D.**, Ma, B., and Wang, T. (2014). Context-Dependent Sentiment Analysis of Online Product Reviews based on Dependency Relationships. International Conference on Information Systems (ICIS 2014). Dec. 14-17, 2014. Auckland, New Zealand.
 72. Xing, M., Yan, Z., **Zhang, D.**, Ma, B., and Liu, W. (2014). A Feature-based Approach to Sentiment Analysis of Online Chinese Product Reviews. China Summer Workshop on Information Management (CSWIM 2014). June 21-22, 2014. Chengdu, China.
 73. Zhang, Z., **Zhang, D.**, Lai, J. (2014). urCF: User Review Enhanced Collaborative Filtering. Proceedings of the 20th Americas Conference on Information Systems. Savannah, Georgia, USA. August 7-10, 2014
 74. Kang, Y., Zhou, L., and **Zhang, D.** (2014). An Integrated method for Hierarchy Construction for Domain-specific Terms, 13th IEEE/ACIS International Conference on Computer and Information Science (ICIS), June4-6, Taiyuan, China.p.485-490.
 75. Zhou, L., Bansal, V., and **Zhang, D.** (2014). Color Adaptation for Improving Mobile Web Accessibility. The 13th IEEE/ACIS International Conference on Computer and Information Science. June 4-6, 2014, Taiyuan, China. p.291-296.
 76. **Zhang, D.**, Jangam, A., Zhou, L. and Yakut, I. (2014). User-Centered, Device-aware Multimedia Content Adaptation for Mobile Web. The 13th IEEE/ACIS International Conference on Computer and Information Science. June 4-6, 2014, Taiyuan, China. p.275-280.
 77. Lai, J. &**Zhang, D.** (2014). ExtendedThumb: A Motion-Based Virtual Thumb for Improving One-Handed Target Acquisition on Touch-Screen Mobile Devices. Proceedings of ACM SIGCHI Conference on Human Factors in Computing Systems (CHI). April 27-May 1. Toronto, Canada. p.1825-1830.
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 79. Jiang, H., **Zhang, D.**, Yan, Z. (2013). A Classification Model for Detection of Chinese Phishing E-Business Websites. Proceedings of the 17th Pacific Asia Conference on Information Systems (PACIS 2013). Jeju Island, Korea, June 18-22, 2013.**Best Paper Award Nominee**
 80. Li, J., **Zhang, D.**, and Zhang, P. (2013). Supporting Dynamic Situation Awareness in Online Group Discussion and Decision Making: A Visualization Approach. Proceedings of 46 Hawaii International Conference on System Sciences (HICSS). Maui, Hawaii. Jan. 7-10, 2013.p.470-479. **Best Paper Award Nominee.**
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89. **Zhang, D.** & Pennington, M. (2009). Context-aware Mobile Assistive Technology for Elderly and Visually Impaired Users. The Eighth Workshop on s-Business (Web 2009). December 15, 2009, Phoenix, Arizona.
90. Mowafi, Y., **Zhang, D.** & Forgionne, G. (2008). Examining a Bayesian Approach to Personalizing Context Awareness in Ubiquitous Computing Environments. The 4th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2008). IEEE Society. Orlando, FL, USA, November 13-16, 2008.
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100. **Zhang, D.**, Lowry, P., Fu, X., Zhou, L. & Adipat, B. (2006). Culture and media effects on group decision making under majority influence. Hawaii International Conference on System Sciences (HICSS-39). January 4-7, Kauai Hawaii, USA. **Nominated for the best paper award.**
101. **Zhang, D.**, Karabatis, G., Chen, Z., Adipat, B., Dai, L., Zhang, Z., & Wang, Y. (2006). Personalization and Visualization on Handheld Devices. The 21st ACM Symposium on Applied Computing, April 23-27, Dijon, France. pp.1008-1012.
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103. Zhang, Z. & **Zhang, D.** (2005). What Will You Like? Ask People Who Are Like You: Past and Future Research on Collaborative Filtering in Recommender Systems. The Fourth Workshop on e-Business, Dec.10, 2005. Las Vegas, Nevada. pp. 195-201.
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106. Adipat, B. & **Zhang, D.** (2005). Developing Adaptive and Personalized Mobile Applications: A Framework and Design Issues. Proceedings of the 2005 Americas Conference on Information Systems (AMCIS), Omaha, Nebraska, USA, August 11-15, 2005. pp. 2281-2290.
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108. Zhou, L., Shi, Y. & **Zhang, D.** (2005). Catch Deceptive Messages Online. 14th Workshop on Information Technology and Systems (WITS). December 11-12, 2004, Washington, D.C. pp. 230-235.
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112. **Zhang, D.** and Zhou, L. (2004). Towards E-Learning In the Semantic Age. The Eighth Pacific-Asia Conference on Information Systems (PACIS), July 8-11, 2004, Shanghai, China. pp. 2114 – 2121.
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114. Zhou, L., Shaikh, M. & **Zhang, D.** (2004). Natural Language Interface for Mobile Devices, International Conference in Intelligent Information Processing, October 21-23, 2004, Beijing, China. pp. 283-286.
115. Zhou, L., Chiang, W. Y. & **Zhang, D.** (2003). Deriving Rules for Predicting Customer Adoption of Online Shopping - Towards agile Web services. The Second Workshop on e-Business (WEB), Dec. 13-14, 2003. Seattle, USA. pp. 109-119.
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121. Zhou, L. & **Zhang, D.** (2002). Analysis of an agent-based approach for discovering term semantic relationship. Proceedings of the 2002 Americas Conference on Information Systems (AMCIS), Dallas, Texas, USA. Aug. 9-11, 2002. pp. 1510-1518.
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