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Education

- Ph.D. in Information Management. National Sun Yat- Sen University.
- Master in Information Management. National Chiao Tung University.
- Bachelor in Information Science. National Chiao Tung University.

Area of Specialty

Data Mining, Text Mining, Medical Informatics, Information Management.

Academic Experience

- Professor, Chairman of Department of Business Administration Southern Taiwan University of Science and Technology, 2010.03 to present
- Associate Professor, Department of Business Administration, Southern Taiwan University of Science and Technology, 2004.07 to 2010.02
- Assistant Professor, Department of Business Administration, Southern Taiwan University of Science and Technology, 2003.08 to 2004.06
- Lecturer, Department of Business Administration, Southern Taiwan University of Science and Technology, 1995.08 to 2003.07

Publications

Journal Papers:

1. Y. Jongtae, P. J. Hu, T. H. Cheng, "Role of affect in self-disclosure on social network websites: a test of two competing models," *Journal of Management Information Systems*, Vol. 32, No. 2, Aug 2015, pp.239-277. **(SSCI)**
2. Y. H. Lee, P. J. Hu, T. H. Cheng, T. C. Huang, W. Y. Chuang, "A pre-clustering-based ensemble learning technique for acute appendicitis diagnoses," *Artificial Intelligence in Medicine*, Vol. 58, No. 2, March 2013, pp.115-124. **(SCI)**
3. Y. H. Lee, P. J. Hu, T. H. Cheng, Y. F. Hsieh, "A cost-sensitive technique for positive-example learning supporting content-based product recommendations in b-to-c e-commerce," *Decision Support Systems*, Vol. 53, No. 1, April 2012, pp.245-256. **(SCI)**
4. Y. H. Lee, C. P. Wei, T. H. Cheng, C. T. Yang, "Nearest-neighbor-based approach to time-series classification," *Decision Support Systems*, Vol. 53, No. 1, April 2012, pp.207-217. **(SCI)**
5. T. H. Cheng and P. J. Hu, "A data-driven approach to manage the length of stay for appendectomy patients," *IEEE Transactions on Systems, Man, and Cybernetics Part A: Systems and Humans*, Vol. 39, No. 6, Nov. 2009, pp.1339-1347. **(SCI)**
6. C. Wei, H. C. Chen, and T. H. Cheng, "Effective Spam Filtering: A Single-Class Learning and Ensemble Approach," *Decision Support Systems*, Vol. 45, No. 3, June 2008, pp.491-503 (NSC 95-2416-H-218-019). **(SCI, SSCI)**

7. T. H. Cheng and C. Wei, "A clustering-based approach for integrating document-category hierarchies," *IEEE Transactions on Systems, Man, and Cybernetics Part A: Systems and Humans*, Vol. 38, No. 2, March 2008, pp. 410-424. **(SCI)**
8. P. J. Hu, T. H. Cheng, C. Wei, C. H. Yu, A. Chan, and H. Y. Wang, "Managing Clinical Use of High-Alert Drugs: A supervised learning approach to pharmacokinetic data analysis," *IEEE Transactions on Systems, Man, and Cybernetics Part A: Systems and Humans*, Vol. 37, No. 4, July 2007, pp. 481 - 492. **(SCI)**
9. P. J. Hu, C. Wei, T. H. Cheng, and J. X. Chen, "Predicting adequacy of vancomycin regimens: a learning-based classification approach to improving clinical decision-making," *Decision Support Systems*, Vol. 43, No. 4, August 2007, pp.1226-1241. **(SCI)**
10. C. Wei, T. H. Cheng, and Y. C. Pai, "Semantic enrichment in knowledge repositories: annotating semantic relationships between discussion documents," *Journal of Database Management*, Vol. 17, No. 1, Jan-Mar 2006, pp.1-15. **(SCI)** (MOE 91-H-FA08-1-4, NSC 93-2416-H-218-009)
11. C. Wei, C. S. Yang, H. W. Hsiao, and T. H. Cheng, "Combining preference- and content-based approaches for improving document clustering effectiveness," *Information Processing and Management*, Vol. 42, No. 2, March 2006, pp.350-372. **(SCI, SSCI)**

Conference Papers:

1. T. H. Cheng, S. C. Chen, and T. Hariguna, "The Empirical Study of Usability and Credibility on Intention Usage of Government-to-Citizen Services," Proceedings of International Conference on INTERNET STUDIES (Nets 2016), Osaka, Japan, July, 2016.
2. T. H. Cheng, C. Y. Tseng, and F. H. Huarng, "Exploring The Effect of Knowledge Management System on Development of Program of Competence Model," Proceedings of 2016 International Conference on Information Management, (ICIM2016), Taichung, Taiwan, May, 2016.
3. G. H. Lai, Y. H. Lee, T. H. Chu, and T. H. Cheng, "A Structure Similarity-Based Approach to Malicious Android App Detection," Proceedings of the 19th Pacific Asia Conference on Information Systems (PACIS 2015), Singapore, June, 2015.
4. J. Y. Du and T. H. Cheng, "The Adoption of Knowledge Management Systems by Small-Sized Enterprises," Proceedings of Symposium of technology and practice on teaching for business management, Tainan Taiwan, May, 2015
5. C. H. Shen and T. H. Cheng, "Gap Analysis for Construction of TTQS – A Case Study of A Craft Union," Proceedings of Symposium of technology and practice on teaching for business management, Tainan Taiwan, May, 2015
6. C. Y. Wang and T. H. Cheng, "Prediction of Ventilator Weaning in Intensive Care Unit," Proceedings of the International Conference On Business and Information, Osaka, Japan, Jul, 2014.
7. T. H. Cheng and Y. H. Lee, "Improving Recommendation Performance with User Interest Evolution Patterns," Proceedings of the 18th Pacific Asia Conference on Information Systems (PACIS 2014), Chengdu, China, June, 2014.
8. T. H. Cheng, H. Yan, and Y. T. Lin, "A Recommendation Technique based on Sequential Pattern Mining," Proceedings of the 19th Conference on Information Management and Practices (IMP 2013), Taichung, Taiwan, December, 2013.

9. C. C. Wu, T. H. Cheng, and Y. S. Lin, "The Impact of Financial Crisis on Structural Unemployment," Proceedings of the fifth Southern Taiwan Business Conference, Tainan, Taiwan, June, 2013.
10. C. C. Wu, T. H. Cheng, "A Study of Patient Satisfaction from the View of Patient-Centered Medical Care: An Example of Appendectomy," Taiwan Conference on Business and Information 2013, Taipei, Taiwan, May, 2013.
11. J. Yu, P. J. Hu, and T. H. Cheng, "Examining Self-Disclosures on Social Network Sites," Proceedings of the Eleventh Workshop on e-Business (WEB 2012), Orlando, Florida, USA, December 2012.
12. T. H. Cheng, N. C. Lu, H. F. Su, and Y. T. Lin, "Prediction of Analgesic Efficacy with Patient Controlled Analgesia," Proceedings of the International Scientific Meeting in Anaesthesiology, Jinan, Shangdong, China, October, 2012.
13. T. H. Cheng, P. C. Huang, Y. T. Lin, "Extracting Self-Extubated Weaning Experience with Decision-Tree-based Imbalance Classification Techniques," Proceedings of Business and Information 2012, Sapporo, Japan, July 2012.
14. H. J. Chung, P. C. Huang, T. H. Cheng, "Extraction of Predictive Weaning Criteria," Proceedings of 15th East Asian Forum of Nursing Scholars, Singapore, Feb. 2012
15. P. C. Huang, T. H. Cheng, H. J. Chung, "A Research on the Application of Decision Tree on Unplanned Self-Extubation from the Ventilation," Proceedings of 15th East Asian Forum of Nursing Scholars, Singapore, Feb. 2012.

Grants

1. Ministry of Science and Technology, No. MOST 104-2410-H-218-006, "Knowledge Maps to Support Quality Assurance of Competency-Based Program," 2015.08.01~2016.07.31.
2. Ministry of Science and Technology, No. MOST 103-2410-H-218-009, "Exploring the Effect of Knowledge Management System on Development of Program of Competence Model," 2014.08.01~2015.12.31.
3. National Science Council, No: NSC-102-2410-H-218-018, "Improving Clinical Protocols with Data Mining Techniques," 2013.08.01~2014.07.31.

Entrusted Practical Projects

- T. H. Cheng and W. R. Shih, 2016, Credit Program for Master's Degree - Statistical Methods. 321050336.
- T. H. Cheng and W. R. Shih, 2015, Credit Program for Master's Degree - Statistical Methods. 321040411.

Professional Certifications

- *ERP Application Engineer for Distribution Module*, No: EAE10DS01501, Chinese Enterprise Resource Planning Society, 2010/05.
- *Business Intelligence Planner*, No: BIP11CE00593, Chinese Enterprise Resource Planning Society, 2010/05.
- *TQC-Advanced level for Excel 2010*, Techficiency Quotient Certification, 2012/04.
- *TQC-Advanced level for Word 2007*, Techficiency Quotient Certification, 2011/04.
- *TQC-Advanced level for Excel 2007*, Techficiency Quotient Certification, 2011/04.
- *TQC-Advanced level for PowerPoint 2007*, Techficiency Quotient Certification, 2011/04.
- *Microsoft Office Specialist Master Instructor*, Microsoft Certiport, 2009/11.

- *MOS for Microsoft Word*, Microsoft Certiport, Microsoft Certiport, 2009/11.
- *MOS for Microsoft Excel*, Microsoft Certiport, Microsoft Certiport, 2009/11.
- *MOS for Microsoft PowerPoint*, Microsoft Certiport, Microsoft Certiport, 2009/11.
- *MOS for Microsoft Access* Microsoft Certiport, Microsoft Certiport, 2009/11.
- *IC³ (Internet and Computing Core Certification)*, Certiport, Global Digital Literacy Council, 2009/01.
- *TQC-Corporation E-planner (level 1)*, E-Enterprise Expert Certification- EEC series, 2009/06.

Academic and Professional Service

- *Reviewer*, International Conference on INTERNET STUDIES (Nets 2016), 2016/05~2016/05.
- *Reviewer*, The academic projects of Ministry of Science and Technology, 2016/02~2016/03.
- *Reviewer*, Journal of Far East University, 2015/09~2015/10.