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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, 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

Journal Papers

1. C.Y. Tseng and T.H. Cheng, "Educational task technology fit and organizational viability in competency based curriculum planning using evidence from the UCAN system," *Discover Education*, Vol. 15, No. 289, Mar. 2026.
2. C.Y. Tseng, T.H. Cheng, C.H. Chang, "A Novel Approach to Boosting Programming Self-Efficacy: Issue-Based Teaching for Non-CS Undergraduates in Interdisciplinary Education," *Indonesian Journal of Business Analytics*, Vol. 15, No. 12, Dec. 2024.
3. T.H. Cheng, S.C. Chen, M.L. Chiu, and M.L. Su, "Artificial intelligence in weaning clinical practice: finding new rules in ventilator support care," *Indonesian Journal of Business Analytics*, Vol. 2, No. 2, Oct. 2022, pp. 199-214.
4. T.H. Cheng, C.Y. Tseng, and S.F. Ting, "An AADIE-based knowledge-mapping method for finding expert support to develop competency-based programs," *Sun Yat-Sen Management Review*, Vol. 30, No. 2, Mar. 2022, pp.259-292.
5. Y.H. Lee, C.P. Wei, P. J. Hu, T. H. Cheng and C. W. Lan, "Small clues tell: a collaborative expansion approach for effective content based recommendations," *Journal of Organizational Computing and Electronic Commerce*, Vol. 30, No. 2, Feb. 2020, pp.111-128.
6. T. H. Cheng and S. F. Ting, "A knowledge mapping method for teachers' competency of higher vocational institutions," *Commerce & Management Quarterly*, Vol. 19, No. 4, Dec. 2018, pp.447-477.
7. Y. Jongtae, A. Xu, P. J. Hu, and T. H. Cheng, "Incorporating association rule networks in feature category-weighted naive Bayes model to support weaning decision making," *Decision Support Systems*, Vol. 96, Apr. 2017, pp.27-38. (SSCI)
8. 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)

9. 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)
10. 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)
11. 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)
12. 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)
13. 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)

Conference Papers

1. S. C. Cheng and T. H. Cheng, "Evaluating the Feasibility of Pet Trusts — A Demand-Oriented Case Study of Tainan City," *Proceedings of 2026 Conference on Business Management Decision and Practice*, Tainan, Taiwan, May, 2026.
2. C. C. Pan and T. H. Cheng, "Exploration of Business Models for Skincare Products Utilizing Novel NLC Equipment," *Proceedings of the 14th Forum on Service Science Research*, Pingtung, Taiwan, Aug, 2025.
3. C. T. Kuo and T. H. Cheng, "Exploring the Business Model of Poodle Breeding: A Case Study of I Pet Store," *Proceedings of 2025 Conference on Business Management Decision and Practice*, Tainan, Taiwan, May, 2025.
4. Y. H. Chang and T. H. Cheng, "Business development of electric bus maintenance," *Proceedings of 2024 Conference on Strategy & Performance Management*, Changhua, Taiwan, June, 2024.
5. Y. C. Lu and T. H. Cheng, "Corporate Ethics Below the Iceberg: Insights from a Residential Long-Term Care Institution," *Proceedings of 2024 Conference on Business Management Decision and Practice*, Tainan, Taiwan, May, 2024.
6. Y. L. Chuang and T. H. Cheng, "The impact of information visualization on company management and communication: A case study of L tourist factory," *Proceedings of 2024 Conference on Business Management Decision and Practice*, Tainan, Taiwan, May, 2024.
7. C. T. Chac and T. H. Cheng, "Performance management and incentives for foreign migrant workers," *Proceedings of 2023 Conference on Business Management Decision and Practice*, Tainan, Taiwan, April, 2023.
8. H. W. Wang and T. H. Cheng, "Performance management and incentives for foreign migrant workers," *Proceedings of the 18th Conference on Theory and Practice of Business Internationalization*, Tainan, Taiwan, May, 2023.
9. Y. H. Hsieh, T. H. Cheng, J. J. Sheu, "An investigation of business expansion strategy - An example of X hydropower company's expansion of charging piles business," *Proceedings of the 17th Conference on Theory and Practice of Business Internationalization*, Tainan, Taiwan, May, 2022.
10. W. T. Chou and T. H. Cheng, "The aid of ERP Implementation on sales KPI creation and management in a SME- A case study of company H," *Proceedings of 2022 Conference on Business Management Decision and Practice*, Tainan, Taiwan, May, 2022.
11. T. H. Cheng, C. Y. Tseng, and S. F. Ting, "The Impact of UCAN Adoption on Curriculum Planning Performance in Universities and Colleges: A FVM perspective," *Proceedings of 2020 International Conference on Information Management (ICIM)*, Chiayi, Taiwan, December, 2020.
12. S. H., Hsu and T. H. Cheng, "Effect of Service Quality of Suburban Community Health Insurance Pharmacy on Customer Repurchase," *Proceedings of the 17th Conference on Service Industry Management and Innovation*, Tainan, Taiwan, May, 2020.

13. C. H. Cheng and T. H. Cheng, "Integrating Business-Training Programs by Implementing TTQS," Proceedings of the 11th workshop on Southern District Master's Thesis of Management, Tainan, Taiwan, May, 2019.
14. J. Y. Lin, T. H. Cheng, S. F. Ting, and M. S. Liou, "The Relationship between Usages of Electronic Database Resources and the Internship Performance on Clinical Physical Therapy," Proceedings of the 15th Conference on Service Industry Management and Innovation, Tainan, Taiwan, May, 2018.
15. T. H. Cheng, S. C. Chen, and M. J. Kan, "Improving Weaning Protocols with Decision Tree Techniques," Proceedings of International Conference on INTERNET STUDIES (Nets 2018), Taksmatsu, Japan, April, 2018
16. T. H. Cheng and S. F. Ting, "A Competency-Knowledge Mapping Method for Teachers of Higher Education," Proceedings of The Fifth Cross-Strait Forum on Development of Management Education, Yunlin, Taiwan, September, 2017.
17. T. H. Cheng and S. F. Ting, C. Y. Tseng, and Y. H. Tsai, "Knowledge Maps to Support Quality Assurance of Competency-Based Program," Proceedings of 2017 Forum on Service Science Research, Taipei, Taiwan, September, 2017.
18. S. C. Chen, S. Y. Chou, C. W. Hung, and T. H. Cheng, "Applying fuzzy logic to assess the key factors of loyalty in e-shopping environment," Proceedings of The Twelfth International Conference On Knowledge-Based Economy And Global Management, Tainan, Taiwan, November, 2016.
19. 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.
20. 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.
21. 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.
22. 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
23. 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
24. 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.
25. T. H. Cheng and Y. H. Lee, "Improving Recommendation Performance with User Interest Evolution Patterns," Proceedings of the 18th Pacific Asia Conference on

Dissertation

- A Clustering-based Approach to Document-Category Integration

Professional Certifications

1. ISO 14064-1 Greenhouse Gas Inventory Standard Lead Verifier, No: 202303018081, ITRI, 2023/06
2. Entrepreneurship and Small Business, No: XDzN-XM5F, Certiport, 2018/12
3. MTA-Introduction to Programming Using Python, No: wbBuv-H9MW, Microsoft Technology Associate, 2018/12
4. ERP Application Engineer for Distribution Module, No: EAE10DS01501, Chinese Enterprise Resource Planning Society, 2010/05.

5. Business Intelligence Planner, No: BIP11CE00593, Chinese Enterprise Resource Planning Society, 2010/05.
6. TQC-Advanced level for Excel 2010, Techficiency Quotient Certification, 2012/04.
7. TQC-Advanced level for Word 2007, Techficiency Quotient Certification, 2011/04.
8. TQC-Advanced level for Excel 2007, Techficiency Quotient Certification, 2011/04.
9. TQC-Advanced level for PowerPoint 2007, Techficiency Quotient Certification, 2011/04.
10. Microsoft Office Specialist Master Instructor, Microsoft Certiport, 2009/11.
11. MOS for Microsoft Word, Microsoft Certiport, Microsoft Certiport, 2009/11.
12. MOS for Microsoft Excel, Microsoft Certiport, Microsoft Certiport, 2009/11.
13. MOS for Microsoft PowerPoint, Microsoft Certiport, Microsoft Certiport, 2009/11.
14. MOS for Microsoft Access Microsoft Certiport, Microsoft Certiport, 2009/11.
15. IC3 (Internet and Computing Core Certification), Certiport, Global Digital Literacy Council, 2009/01.
16. TQC-Corporation E-planner (level 1), E-Enterprise Expert Certification- EEC series, 2009/06.

Professional Experience

1. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2026.
2. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2025
3. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2024.
4. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2023
5. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2022.
6. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2021.
7. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2020.
8. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2019.
9. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2018.
10. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2017.
11. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2016.
12. A Project Consultant for Yunlin-Chiayi-Tainan Regional Branch of Workforce Development Agency, Ministry of Labor, 2015.

Grants

1. Ministry of Science and Technology, No. MOST 106-2410-H-218-005, "An Empirical Study of Universities' Adoption of UCAN as Curriculum Mapping Information System: An Extended Fit-Viability Model," 2017.08.01~2018.07.31.
2. Ministry of Science and Technology, No. MOST 105-2410-H-218-003, "Identification Of Competency-Based Knowledge: To Develop A Tool to Map The Present and Required Knowledge For Vocational Higher Education," 2016.08.01~2017.12.31.
3. Ministry of Science and Technology, No. MOST 104-2410-H-218-006, "Knowledge Maps to Support Quality Assurance of Competency-Based Program," 2015.08.01~2016.12.31.
4. 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.

5. 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

1. T. H. Cheng 2025, Credit Program for Master's Degree - Business Management and Philosophy. 31001140086..
2. T. H. Cheng and T. H. Wu, 2025, Credit Program for Master's Degree - Sustainable Finance and Innovation. 31001130256.
3. T. H. Cheng 2024, Credit Program for Master's Degree - Business Management and Philosophy. 31001130094.
4. T. H. Cheng and T. H. Wu, 2024, Credit Program for Master's Degree - Sustainable Finance and Innovation. 31001130256.
5. T. H. Cheng 2023, Credit Program for Master's Degree - Business Management and Philosophy. 31001120111.
6. T. H. Cheng and T. H. Wu, 2023, Credit Program for Master's Degree - Sustainable Finance and Innovation. 31001120278.
7. T. H. Cheng 2022, Credit Program for Master's Degree - Business Management and Philosophy. 31001110103.
8. T. H. Cheng and T. H. Wu, 2022, Credit Program for Master's Degree - Sustainable Finance and Innovation. 31001110309.
9. T. H. Cheng, 2021, Credit Program for Master's Degree - Business Management and Philosophy. 31001100095.
10. T. H. Cheng and T. H. Wu, 2021, Credit Program for Master's Degree - Financial Management. 31001100277.
11. T. H. Cheng and T. H. Wu, 2020, Credit Program for Master's Degree - Financial Management. 31001090076.
12. T. H. Cheng, 2020, Credit Program for Master's Degree - Business Management and Philosophy. 31001091001.
13. T. H. Cheng, 2019, Credit Program for Master's Degree - Business Management and Philosophy. 33001080118.
14. T. H. Cheng and T. H. Wu, 2019, Credit Program for Master's Degree - Financial Management. 33001080311.
15. T. H. Cheng and T. H. Wu, 2019, Credit Program for Basis of Master's Degree - Basic Management Skills. 33001080095.
16. T. H. Cheng and S. Y. Wang, 2018, Technical Service Project on Assistant Planner Professional License. 33001070059
17. T. H. Cheng and T. H. Wu, 2018, Credit Program for Basis of Master's Degree - Basic Management Skills. 33001070095.
18. T. H. Cheng and T. H. Wu, 2018, Credit Program for Master's Degree - Financial Management. 33001070280.
19. T. H. Cheng and W. R. Shih, 2017, Credit Program for Master's Degree - Financial Management. 321060396.
20. T. H. Cheng and W. R. Shih, 2017, Credit Program for Basis of Master's Degree - Basic Management Skills. 321060119.