

Kuan-Yeh Tung (童冠燁)

Department of Information Management
Southern Taiwan University of Science and
Technology
No. 1, Nan-Tai Street, Yungkang Dist., Tainan City
71005, Taiwan

Office T1233
☎ 886-6-2533131 ext. 8433
💻
✉ tung@stust.edu.tw



Education

- Ph.D. in Industrial Management, Graduate school of Industrial Management, National Cheng Kung University 1997/6.
- M.S. in Industrial Management Science, Graduate school of Industrial Management, National Cheng Kung University, 1991/6.
- B.S. in Management Science, College of management, National Chiao Tung University, 1989/6.

Area of Specialty

- Operations Management
- Enterprise Resource Planning,
- Big Data Analytics

Academic Experience

- Assistant Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 2002/8 to present.
- Assistant Professor, Department of Information Management, Aletheia University, 1999/8 to 2002/7.
- Fellow, Taiwanese Association for Artificial Intelligence, 2000/5 to present.
- Lecturer, Department of Business Administration, Kaohsiung Polytechnic Institute, Kaohsiung County, Taiwan, (Part-time), 1995/8 to 1996/7.
- Lecturer, Open Junior College of Commerce, National Cheng Kung University, Tainan, Taiwan, (Part-time), 1992/5 to 1997/7.

Journal Papers

1. Tung, K. Y., and S. L. Chen. (2017), "The Relationship between Autonomy Support Climate and Service Performance: Evidence from Part-time Employees", The Journal of American Academy of Business, Cambridge, Vol. 23, No. 9, 125-131.[ABI/INFORM]
2. Tung, K. Y., J.-P. Huang, and C.-F. Cai (2017), "The application of data mining in institutional research: a case study of student's teaching reaction", Journal of Education Research, No. 280, 106-118.
3. Ho, C. M., S. L. Chen, and K. Y. Tung (2006), "The Determinants of Reemployment among the Workers of Involuntary Job Loss Based on the Human Capital and Labor Market Segmentation Theory: Logit Log-linear Analysis", Journal of Management, Vol. 23, No. 1, 61-75. [TSSCI] (in Chinese)
4. Tung, K. Y., I. C., Huang, S. L. Chen, and C. T. Shih (2005), "Mining the Generation Xers' Job Attitudes by Artificial Neural Network and Decision Tree- Empirical Evidence in Taiwan", Expert Systems With Applications, Vol. 29, No. 4, 783-794. [SCI]
5. Huang, I. C., S. L. Chen, C. T. Shih, and K. Y. Tung (2005), "The Moderating Effect of Gender Discrimination on Organizational Commitment : A Study of Southern Taiwan Female Executives", NTU Management Review, 15(2), 71-98. [TSSCI] (in Chinese)

Conference Papers

1. Wang, P.-Y. and K.-Y., Tung (2023) "Big data analysis in the study of traffic accident factors -

- Taking Tainan city as an example", 2023 Conference on Academic and Practical of Business , Taipei, TWN.
2. Chen, S.-L. , K.-Y., Tung and Msuku, Z. (2023) "The relationship ethical leadership and work outcomes: The moderating role of moral identity and the mediating role of psychology capital", IAM 2023 Summer International Conference on Innovation and Management, Osaka, JPN.
 3. Tung, K. Y. and S.-L., Chen (2016) "Using fuzzy decision tree to acquire knowledge of factors influencing service performance of service employees", 2016 International Conference on Business and Information, Nagoya, JPN.
 4. Chen, S.-L. and K. Y. Tung (2014) "The signaling effects of supervisors' psychological capital and subordinates' psychological capital, job engagement: a multilevel mediating perspective", 4th Annual Conference on Management and Social Sciences, Singapore.
 5. Tung, K. Y. and Y.-J. Cheng (2013) "Knowledge acquisitions of service employee's work engagement under the structure of positive psychology by fuzzy decision tree," 2013 International Symposium on Business and Social Science, Bangkok, TH.
 6. Chen, S.-L., K.-I Chang, K.-Y. Tung, and M.-C. Chou (2012) "The influence of collective psychological capital on individual job performance," The Academy of Management 2012, Boston, U.S.A.
 7. Tung, K. Y. and P.-F. Hsieh (2012) "Application of Data Mining to National People's Financial Management Characteristics-an Example of Academia Sinica's PSFD," The E-Learning and Information Technology Symposium 2012, Tainan, Taiwan. (in Chinese)
 8. Tung, K. Y. and P.-C. Chen (2012) " A Study of Youth Job Search Behavior by Data Mining," The E-Learning and Information Technology Symposium 2012, Tainan, Taiwan. (in Chinese)
 9. Tung, K. Y. and P.-C. Chen (2011) " A Study of Youth Job Search Behavior by Decision Trees," Taiwan Academic Network Symposium 2011, I-Lan, Taiwan. (in Chinese)
 10. Tung, K. Y., Y. F. Chen, C. F. Tsai, and C. N. Chen (2010) "A Study of Student-Oriented Feedback on Teaching with Decision Trees - An Example of a University," 2010 Conference on Business Management, Taipei, Taiwan. (in Chinese)
 11. Tung, K. Y., C. F. Tsai, and C. N. Chen (2010) "A Study of Student-Oriented Feedback on Teaching by Data Mining," 2010 Conference on Financial Innovation and Business Development, Tainan, Taiwan. (in Chinese)
 12. Tung, K. Y. and C. C. Chen (2008) "The Habits of Seeking Doctors in Taiwan by Applying Sequence Clustering," The E-Learning and Information Technology Symposium 2008, Tainan, Taiwan. (in Chinese)
 13. Tung, K. Y. and C. C. Chen (2007) "Data Mining in Acquiring the Knowledge of the Habits of Seeking Doctors in Taiwan," The 12th Conference on Artificial Intelligence and Applications, Yunlin, Taiwan. (in Chinese)
 14. Tung, K. Y. and C. C. Chen (2007) "Association Mining in the habits of seeking doctors in Taiwan," The 2007 Conference on Chinese Association of Business and Technology, Tainan, Taiwan. (in Chinese)
 15. Tung, K. Y., S. L. Chen, C. M. Ho, and I. C. Huang (2005), "Knowledge Acquisition of the Factors of Re-employment among People with Involuntary Job Loss- Empirical Evidence in Taiwan", The 14th International Conference on Comparative Management- New Challenge in Asia Pacific Economy, Kaohsiung, Taiwan, pp.ORG & HRM 3-2-1-ORG & HRM 3-2-15. (in Chinese)
 16. Tung, K. Y. and Z. Y. Zhou (2005), "A Study of Pre-Sorting Strategy for COBWEB Algorithms", Proceeding of the 16th International Conference on Information Management, Taipei, Taiwan. (in Chinese)

Dissertation

- Tung, Kuan-Yeh (1997) "Inductive Learning in Dynamic Scheduling of Flexible Manufacturing System," Ph.D. Dissertation, National Cheng Kung University.

Professional Certifications

1. Certification of Greenhouse Gas Emissions Verification Lead Verifier Practice Training, No. 202303018042, Industrial Technology Research Institute, 2023/4.
2. Internet of Things, No. 3489187, ICDL, 2022/12/19.
3. Information Technology (Python), No. 132220100007450, Techficiency Quotient Certification, 2021/12/18.
4. Data Analytics - Microsoft Excel 2016 and Power BI, No. 8862019000183, ICDL, 2019/11.
5. Applications and Techniques of Artificial Intelligence, No. 132190800001840, Computer Skills Foundation, 2019/8.
6. Microsoft Technology Associate: Introduction to Programming using Python, No. wbBun-H9MW, Microsoft, 2018/12.
7. IOT Application and Technology, No. 132161200016020, Computer Skills Foundation, 2016/12.
8. Cloud Technology and Internet Services, Professionals, No. 132160800001720, Computer Skills Foundation, 2016/8.
9. Microsoft Technology Associate: Windows Operating System Fundamentals, No. F425-0579, Microsoft, 2015/10.
10. Microsoft Technology Associate: HTML5 Application Development Fundamentals, No. F425-0580, Microsoft, 2015/10.
11. Big Data Process and Analysis, No. 431150800000150, Computer Skills Foundation, 2015/8.
12. Applications of Mobile Device, No. 132140800012390, Chinese Computer Education Association, 2014/8.
13. Webpage Program Design, No. 232130900000720, Chinese Computer Education Association, 2013/9.
14. Word 2010 (Expert), No: 9241614, Chinese Computer Education Association, 2012/11.
15. Excel 2010 (Expert), No: 9241680, Chinese Computer Education Association, 2012/11.
16. E-Enterprise Planner Certification - Information Security and Law, No: 431121100001420, Computer Skills Foundation, 2012/11.
17. E-Enterprise Planner Certification -Enterprise Resource Planning, No: 431120900000260, Computer Skills Foundation, 2012/9.
18. ERP Application Engineer For Financial Module of Data Systems Workflow ERP GP, Release 2.X, No: CERPS1100196, Chinese Enterprise of Resource Planning Society, 2011/8.
19. ERP Application Engineer For Distribution Module of Data Systems Workflow ERP GP, Release 2.X, No: CERPS1100201, Chinese Enterprise of Resource Planning Society, 2011/8.
20. ERP Application Engineer For Manufacturing Module of Data Systems Workflow ERP GP, Release 2.X, No: CERPS1100204, Chinese Enterprise of Resource Planning Society, 2011/8.
21. BI OLAP Application Engineer of V-Point EIS, Release 4.X, No: BIAE11DS00201, Chinese Enterprise of Resource Planning Society, 2011/6.
22. Business Intelligence Planner, No: BIP11CE00113, Chinese Enterprise of Resource Planning Society, 2011/2.
23. SAP BUSINESS ONE Application Maintenance Manager, SAP Taiwan Education Service, 2010/8.
24. CRM Merchandise Analyst, No: CRM2010000955, Microanalysis & Assisted by M. O. E. Center, 2010/8.
25. e-Business Analyst, No: EBA2010000170, Microanalysis & Assisted by M. O. E. Center, 2010/8.
26. E-Enterprise Assistant Planner, No: AP-13375-0120, Computer Skills Foundation, 2010/1.
27. Fundamental of e-Commerce - Professional , Computer Skills Foundation, 2009/12.
28. Internet Explorer 6.0 - Professional , Computer Skills Foundation, 2009/12.
29. E-Enterprise Planner I, No: EPI-11176-0352, Computer Skills Foundation, 2009/5.
30. ITIL Foundation, No: 00123129-01-XL1V, APM Group, 2009/2.
31. IC3: Internet and Computing Core Certification, CERTIPORT, 2008/1.
32. ERP Application Engineer For Distribution Module of Data Systems Workflow ERP, Release 5.X, No: EAE07DS01776, Chinese Enterprise of Resource Planning Society, 2007/8.
33. ERP Application Engineer For Manufacturing Module of Data Systems Workflow ERP, Release 5.X, No: EAE07DS01787, Chinese Enterprise of Resource Planning Society, 2007/8.

Professional Experience

1. Admissions Committee of Department of Information Management, 2021/8 to present.
2. Person in Charge of the Committee of Department of Information Management for AACSB, 2021/8 to present.
3. Committee of Practical Topics of Department of Information Management, Southern Taiwan University of Science and Technology, 2017/2 to present.
4. Counselor, Workforce Development Agency, Ministry of Labor, Yunlin-Chiayi-Tainan Regional Branch, 2021/1 to present.
5. Editorial Board Member, Information and Management Science, 2021/8 to present.
6. Consultant, Taiwan's Think Tank Think Policy Institutions, 2021/8 to present.
7. Consultant, Builder Co., 2011/5 to present.
8. Consultant, Cool-Win Digital Technology Limited Corporation, 2019/1 to present.
9. Reviewer, The E-Learning and Information Technology Symposium 2018, 2018/2.
10. Session Chairman, The E-Learning and Information Technology Symposium 2018, 2018/2.
11. Reviewer, The E-Learning and Information Technology Symposium 2017, 2017/2.
12. Session Chairman, The E-Learning and Information Technology Symposium 2017, 2017/2.
13. Master Committee Member, Graduate Institute of Information Management, National Cheng Kung University, 2016/6.
14. Reviewer, The E-Learning and Information Technology Symposium 2016, 2016/2.
15. Master Committee Member, Graduate Institute of Information Management, National Cheng Kung University, 2016/1.
16. Reviewer, The E-Learning and Information Technology Symposium 2015, 2015/2.
17. Reviewer, The E-Learning and Information Technology Symposium 2014, 2014/2.
18. Reviewer, The E-Learning and Information Technology Symposium 2013, 2013/2.
19. Committee of 4th Additional E-Learning Courses Service Construction, Nanying Communiversity, 2012/10.
20. Committee of 3rd Additional E-Learning Courses Service Construction, Nanying Communiversity, 2012/7.
21. Committee of 2nd Additional E-Learning Courses Service Construction, Nanying Communiversity, 2012/3.
22. Reviewer, The E-Learning and Information Technology Symposium 2012, 2012/3.
23. Committee of 1st Additional E-Learning Courses Service Construction, Nanying Communiversity, 2012/2.
24. Master Committee Member, Graduate Institute of Information Management, National Cheng Kung University, 2011/6.
25. Reviewer, The E-Learning and Information Technology Symposium 2011, 2011/3.
26. Committee of 3rd E-Learning Courses Service Construction, Nanying Communiversity, 2011/2.
27. Committee of 2nd E-Learning Courses Service Construction, Nanying Communiversity, 2011/1.
28. Committee of 1st E-Learning Courses Service Construction, Nanying Communiversity, 2010/12.
29. Master Committee Member, Graduate Institute of Information Management, National Cheng Kung University, 2010/12.
30. Master Committee Member, Graduate Institute of Information Management, National Cheng Kung University, 2010/5.
31. Reviewer, The E-Learning and Information Technology Symposium 2010, 2010/3.
32. Reviewer, The E-Learning and Information Technology Symposium 2009, 2009/4.
33. Reviewer, The E-Learning and Information Technology Symposium 2008, 2008/3.
34. Reviewer, The E-Learning and Information Technology Symposium 2006, 2006/12.
35. Program Chair, The E-Learning and Information Technology Symposium 2006, 2006/12.
36. Committee of Website Reconstruction, Southern Taiwan Science Park, 2005.

Grants

1. 智慧創新關鍵人才躍升計畫-A：大數據分析與機器學習微學程，案號：34001120065-EDU-5，教育部，2023/2/1~2024/1/31。
2. National Science Council, No: MOST 111-2637-E-218 -010, "Deep Learning-Based Medical Functional Detection Method of Pupil by Using Dynamic Infrared Image," 2022/8 - 2023/7.
3. 智慧創新跨域人才培育聯盟計畫-A1:大數據分析微學程智慧物聯網與跨平臺互動實務微學程，案號：34001100039-EDU-3，教育部，2021/2/1~2022/1/31。
4. Ministry of Education, No: 4A001070214-EDU-3, "T MOE Talent Cultivation Project for Digital Humanities - Digital Innovation of Talent Cultivation for Senior Welfare Service," 2018/8-2019/4.
5. Ministry of Education, No: 330990045-GP, "The Creative Contest of Integrating Information Technology into Teaching Creative for Junior," 2010/5-2011/3. (Collaborative Moderator)
6. Industrial Development Bureau, Ministry of Economic Affairs, No: 09860365, "Installation and Construction of E-Inventory," 2010/5-2010/10.
7. National Science Council, No: NSC-98-2410-H-218 -003, "Knowledge Acquisitions Of Customer Service Personnel Work Engagement under the Structure of Positive Psychology by Fuzzy Decision Tree," 2009/8 - 2010/7.

Entrusted Practical Projects

1. 大數據分析與人工智慧教育訓練，案號：34001110430，成就數位股份有限公司，2022/12/1~2023/1/31。
2. 運算思維與探索式資料分析教育訓練，案號：34001110426，成就數位股份有限公司，2022/12/1~2023/1/31。
3. 裝修業應用－履歷建立管理雲端資料系統，案號：34001110248，鴻玠國際有限公司，2022/8/1~2022/11/30。
4. 以AIOT技術整合運輸人流計數與BSIS視野輔助系統於台南智慧交通安全創新應用服務研發計畫，案號：34001110017，奇美車電股份有限公司，2022/1/1~2022/6/30，協同主持人。
5. 臺灣本土黃金薯－產銷供應平衡創新平台機制服務研發計畫，案號：34001100300，毓軒有限公司，2021/11/1~2021/12/31。
6. Cambridge-Hotel Group, No: 34001090126, "Responsible quality management resume service and innovative research and development plan for business customer remarketing," 2020/09-2020/12.
7. Huatai Hotel Management Consulting Co., Ltd., No: 34001090119, "Enterprise employee welfare, digital active integration of multiple stores and data analysis innovation application," 2020/08-2020/11.
8. Samsan Limited Corporation, No: 34001080470, "Automatic image recognition and data management development system for innovative fish catches in deep-sea fishery," 2019/12-2020/7.
9. Qiao-Yu Limited Corporation, No: 34001080349, "Pearl Milk Tea Cake Roll Wisdom O2O Parent-Child DIY Experience Self-service Bar Innovative Application Service," 2019/08-2020/04.
10. Samsan Limited Corporation, No: 34001080173, "Pre-planning for Internet Service of Ocean Fishing Satellite Communication," 2019/4-2019/9.
11. Training Center of CPC Corporation, Taiwan, No: 34001080109, "Visualization Analysis and Application of Training Courses in Training Center," 2019/1-2019/5.
12. Chen-Yu Limited Corporation, No: 34001070330, "Innovation of Automation Service Sharing for Home Water Quality," 2018/8-2019/4.
13. Industrial Development Bureau, Ministry of Economic Affairs, No: 34001070180, "Construction of sales terminal real-time information platform for screw packaging industry," 2018/5-2018/10.
14. Clean LuLu & House Go In, No: 331060436, "Family butler service," 2017/8-2018/4.
15. Industrial Development Bureau, Ministry of Economic Affairs, No: 331060364, "The development of real-time warehouse information and electronic invoice systems," 2017/6-

2017/11.

16. Industrial Development Bureau, Ministry of Economic Affairs, No: 331040332, "The integrations toward productivity 4.0 for small and medium enterprise in Taiwan," 2015/5-2015/10.
17. Industrial Development Bureau, Ministry of Economic Affairs, No: 331040230, "Development of sales information flow for cross-nation," 2015/4-2015/9.
18. Industrial Development Bureau, Ministry of Economic Affairs, No: 331030289, "The service of vehicle parts manufacturing and ICT innovation," 2014/5-2014/10
19. Industrial Development Bureau, Ministry of Economic Affairs, No: 331020221, "The enhancement of knowledge applications for the industrial cluster of automobiles," 2013/6-2013/11
20. Industrial Development Bureau, Ministry of Economic Affairs, No: 331000388, "Data Control and Sales Platform Construction," 2012/5-2012/10.
21. Metal Industries Research & Development Centre, No: PS099160905, "The Rationalized Control of Enterprise Manufacturing Process," 2010/7-2010/12.

Honors and Awards

1. E-teaching excellence award, 2019.
2. Excellent Work of Entrepreneurial Practice, Ryan Cup of Three Innovation Campus Competition, 2018.
3. E-teaching excellence award, 2016.
4. Excellent work, Certification Promotion of Distribution Module of ERP Systems, 2015.
5. E-teaching excellence award, 2015.
6. Excellent work, Certification Promotion of BI Soft Applications, 2014.
7. Selected, 2012 Telecom Innovation and Application Contest - Application of Creative, 2012.
8. Excellent work, The ERP Practice Cases Competition of National College, 2011.
9. Who's Who in the World, 2010

Patents

1. Tung, Kuan-Yeh, Guo, J.-M., Li, C.-H. and Chen, G.-Y. (2014) Clockwork type model toy. M477916.
2. Tung, Kuan-Yeh, Guo, J.-M., Zhen, G.-H., Kan, Y.-C. and Shi, X.-Y. (2014) Skin condition sensing system used on carried object. Patent No. M474482.
3. Tung, Kuan-Yeh, Guo, J.-M., Chen, H.-S. and Lin, Y.-C. (2013) Multi-layered cat litter box structure. Patent No. M465772.
4. Tung, Kuan-Yeh and Guo, J.-M. (2013) Electronic device with reality simulation function. Patent No. M452798.
5. Tung, Kuan-Yeh and Guo, J.-M. (2012) Hiking stepper with virtual reality simulation function. Patent No. M452792.