

## Chao-Yi Wu (吳昭儀)

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

Office T1247  
☎ 886-6-2533131 ext.8447  
📠 886-6-2518171  
✉ jywu@stust.edu.tw



### Education

- PhD, Industrial and Information Management, National Cheng-Kung University, 2005/5
- Master, Department of Information Management, National Chiao-Tung University, 1994/6

### Area of Specialty

- ERP
- Enterprise System Development

### Academic Experience

- Associate Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 2006/1 to present
- Assistant Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 2005/6 to 2005/12
- Instructor, Department of Information Management, Southern Taiwan University of Science and Technology, 1994/8 to 2005/5

### Journal Papers

1. Ching-Yi Wang<sup>1</sup>, Chao-Yi Wu, 2023. Pension Payment Automatic Adjustment in Taiwan's Labor Insurance: Lessons from Japan. Journal of Southern Taiwan University of Science and Technology: Social Science Edition, 8(1), 55-73. (in Chinese)
2. Ching-Yi Wang, Chao-Yi Wu, 2019. The Generational Equity of the Labor Insurance Old-Age Pension Benefit in Taiwan: From the Pension Finance. Taiwan Insurance Review, 35(3), 279-307. (in Chinese)
3. Chao-Yi Wu, Ting-Guang Li, Ching-Yi Wang, 2019. A Study of Using Mobile Crowd Sensing to Monitor the Transport of City Buses for Schedule Planning. Journal of Southern Taiwan University of Science and Technology: Engineering Science Edition, 4(1). (in Chinese)
4. Chao-Yi Wu, Wei-Hau Jhuang, Ching-Yi Wang, 2016. A Study of the Effect of Mobile Shopping App's Visual Design on Consumers' Impulse Buying Behavior. Journal of Southern Taiwan University of Science and Technology: Social Science Edition, 1(1). (in Chinese)
5. Ching-Yi Wang, Chao-Yi Wu and Pei-Yun Tu. 2014. The Investment Performance of Labor Insurance Fund and Labor Pension Fund SRI Strategy. Journal of Southern Taiwan University of Science and Technology, 39(2), 1-18. (in Chinese)
6. Chao-Yi Wu, Ching-Yi Wang, Ting-Wei Yang, 2012. A mobile oriented security system based on agent theory and cloud technique. Journal of Southern Taiwan University, 37(3), 39-54. (in Chinese)
7. Victor B. Kreng, Chao-Yi Wu, I-Chiang Wang, 2011. Strategic justification of advanced manufacturing technology using extended AHP model. The International Journal of Advanced Manufacturing Technology, 52(9-11), 1115-1260. [SCI]
8. Victor B. Kreng, Chao-Yi Wu, 2007. Evaluation of knowledge portal development tools using a fuzzy AHP approach: The case of Taiwanese stone industry. European Journal of Operational Research, 176(3), 1795-1810. [SCI]
9. Victor B. Kreng, Chao-Yi Wu, 2003. An AHP group decision fusion model by fuzzy integral. Journal of Management - Chinese Management Association, 20(2), 201-218. [TSCI]

## Conference Papers

1. Chao-Yi Wu, Ren-Hao Ren, 2022. Applying CNN to Recognize Fullness of Containers of Finished-Screw. 2022 Artificial Intelligence Technology and Application. (in Chinese)
2. Chao-Yi Wu, Ren-Hao Ren, 2022. Applying Deep Learning Image Recognition to Full Load Warning of Screw-Completed Containers. ITIA 2022 International Conference on Information Technology and Industrial Applications. (in Chinese)
3. Chao-Yi Wu, Ming-Jen Hsu, Jen-Hao Tung, 2021. Developing a Prototype System of Interactive Window Commodity Demonstration. E-learning and Information Technology Symposium 2021. (in Chinese)
4. Chao-Yi Wu, Ming-Jen Hsu, 2018. A Prototype of Applying Transparent Display to Interactive Window Commodity Demonstration. E-learning and Information Technology Symposium 2018. (in Chinese)
5. Chao-Yi Wu, Jian-Jhang Huang, 2017. A risk evaluation model for ERP implementation in small and medium enterprises. International Conference on Information Management 2017. (in Chinese)
6. Chao-Yi Wu, Ting-Guang Li, 2016. A Model Based on Mobile Crowd Sensing for Monitoring Behaviors of City Bus Passengers. E-learning and Information Technology Symposium 2016. (in Chinese)
7. Chao-Yi Wu, Jian-Jhang Huang, 2014. A risk assessment framework for ERP implementation based on Interpretive Structural Modelling. E-learning and Information Technology Symposium 2014. (in Chinese)
8. Chao-Yi Wu, Chao-Wei Huang, 2014. Personalized Mobile Recommendation System with Learning Abilities for Indoor Shopping. E-learning and Information Technology Symposium 2014. (in Chinese)
9. Chao-Yi Wu, Ching-Yi Wang, Wei-Hau Jhuang, 2014. Effect of Mobile Shopping App's Visual Design on Consumers' Impulse Buying Behavior. International Conference on Information Management 2014. (in Chinese)
10. Chao-Yi Wu, Shang-Kun Tsai, 2012. A positioning and recommendation system for a physical store. E-learning and Information Technology Symposium 2012. (in Chinese)
11. Chao-Yi Wu, Ching-Yi Wang, Guan-Yu Lin, 2011. Evaluating Individual Knowledge Item based on utility and time value with the application on performance. The Seventh International Conference on Knowledge-Based Economy & Global Management.
12. Chao-Yi Wu, Ching-Yi Wang, Chia-Hua Chang, Ching-Hui Hsu, 2010. Investigating the usage of multiple service channels of the security companies in Tainan Area and developing a framework of a multi-channel CRM system. 2010 Symposium on Global Business Operation and Management. (in Chinese)
13. Chao-Yi Wu, Ching-Yi Wang, Chia-Hua Chang, Chen-Han Lin, 2010. Evaluating knowledge item based on the value of enterprise. 2010 International Conference on Advanced Information Technologies. (in Chinese)
14. Chao-Yi Wu, Chen-Han Lin, 2009. Developing a knowledge evaluation model based on value and performance of enterprise. E-learning and Information Technology Symposium 2009. (in Chinese)
15. Chao-Yi Wu, Chung-Yu Kuo, 2009. A tag-based merchandise recommendation system for personal in online shopping. E-learning and Information Technology Symposium 2009. (in Chinese)
16. Chao-Yi Wu, 2009. A case study on the ERP system transfer of a growing small-size company in Taiwan. 2009 International Conference On The Development And Practice Of Enterprise Resource Management. (in Chinese)
17. Chao-Yi Wu, Ching-Hui Hsu, 2009. An investigation of the usage of multiple service channels of the security companies in Tainan Area. 2009 International Conference on the Development and Practice of Enterprise Resource Management. (in Chinese)
18. Chao-Yi Wu, Kuan-Yu Lin, 2008. A knowledge evaluation model based on AHP. E-learning and

Information Technology Symposium 2008. (in Chinese)

19. Chao-Yi Wu, Chao-Ming Yang, 2008. Using artificial neural network to forecast the traffic of a mobile communication station. E-learning and Information Technology Symposium 2008. (in Chinese)
20. Victor B. Kreng, Chao-Yi Wu, 2002. An enhanced analytical hierarchical process for group decision. The Eighth Asia Pacific Management Conference - Indigenizing globalization Strategy in the 21st Century, Hong-Kong.
21. Chao-Yi Wu, 2002. An agent-based framework for knowledge management system. The 17th National Technical and Vocational Education Conference. (in Chinese)
22. Victor B. Kreng, Chao-Yi Wu, 2000. Analyzing the requirements of high-tech companies for neighborhood resources in Taiwan's science park. The 15th National Technical and Vocational Education Conference. (in Chinese)

#### **Dissertation**

- Chao-Yi Wu, 2012. A Study on Group Decision Fusion of AHP. Ph.D. Dissertation, National Cheng Kung University.

#### **Professional Certifications**

1. Key Knowledge of IoT Development, Techficiency Quotient Certification, 2020/8.
2. Microsoft Technology Associate: Introduction to Programming using Python, 2018/12.
3. Microsoft Technology Associate: HTML 5 Application Development Fundamentals, 2015/10.
4. Microsoft Technology Associate: Windows Operating System Fundamentals, 2015/10.
5. Mobile Device Application, Techficiency Quotient Certification, 2014/8.
6. Webpage Program Design, Techficiency Quotient Certification, 2013/9.
7. MTA Database Administration Fundamentals, Microsoft, 2011.
8. MTA Networking Fundamentals, Microsoft, 2011.
9. MTA Software Development Fundamentals (VB), Microsoft, 2011.
10. Security 5 Version 1, No: ECC941950, EC-Council, 2010.
11. ITIL V3 Foundation Examination, No: 00123132-01-V4CX, APM Group, 2009.
12. Solution Consultant SAP Business One (2005), No: 0005772107, SAP, 2008.

#### **Entrusted Practical Projects**

1. Chao-Yi Wu, 2020/9-2021/1. Development of a Production Man-hour Management System. 34001090066.
2. Chao-Yi Wu, 2020/3-2020/8. Development of the System autogenerating Reports for uploading to Taiwan Food Traceability System. 34001091001.
3. Chao-Yi Wu, 2018-2019. Developing a Quality Control Management System. 34001070368.
4. Chao-Yi Wu, 2018. Developing a Tracing System of Food Quality Testing and Pedigree. 25990.
5. Chao-Yi Wu, 2017. Developing an Intelligent Marketing Platform. 25534.
6. Chao-Yi Wu, 2016. Feasibility Study of Personalized Commercial Film Playing System. 21676.
7. Chao-Yi Wu, 2015. Development of Salesmen Travel Assistant APP. 20757.
8. Chao-Yi Wu, 2013. Feasibility Study of Using DORADO Framework to Develop Exhibition Order System. 16804.
9. Chao-Yi Wu, 2012. Developing the Enterprise Website of Products Searching and Backend Management Platform. 14642.
10. Chao-Yi Wu, 2012. Micro ERP System Development on the Basis of Microsoft Excel. 14505.

#### **Honors and Awards**

- The Best Paper of Year 2003 , An AHP group decision fusion model by fuzzy integral, Journal of Management - Chinese Management Association, 2003.