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Education

- Ph.D., Department of Industrial and Manufacturing Systems Engineering, University of Texas, Arlington, 2002/12
- Master, Department of Information System, University of Texas, Arlington, 1998/12
- Master, Department of Business Administration, California State University, Sacramento, 1994/12

Area of Specialty

- E-Commerce, Information System

Academic Experience

- Director of International Accreditation Office, Southern Taiwan University of Science and Technology, 2012/10 – 2013/07; 2016/01 to present.
- Deputy Chair of Department of Industrial Management and Information, Southern Taiwan University of Science and Technology, 2008/08 - 2012/07.
- Assistant Professor, Department of Management and Information Technology, Southern Taiwan University of Science and Technology, 2003/02 to present.

Publications

Journal Papers:

1. Chien-Hung Liu, Shu-Ling Chen, and Teng-Yi Huang (2013), "Data Flow Analysis and Testing for OWL-S Semantic Web Service Compositions," International Journal of Computational Science and Engineering (IJCSE), 8(4), 349-360. (EI)
2. Chin-Sheng Wan, Shu-Ling Chen, Mei-Lan Lin, and Kuan-Jih Chi (2012), "The Influence of Restaurant Coupons Discount Depth on Re-consumption Willingness of Customers: Brand Image as Moderating Variable," Journal of Tourism and Leisure Studies, 18(3), 189-209. (TSSCI)
3. Chien-Hung Liu, Shu-Ling Chen, and Chia-Jung Wu (2008), "Applying PSP to Support

Teaching of Programming Courses,” *Journal of Computers*, 9 (3), 55-65.

Conference Papers:

1. Chien-Hung Liu, Shu-Ling Chen, and Guan-Jhih Huang (2016), “A Parallel Execution Approach for Improving Regression Testing Efficiency over Cloud,” In Proceedings of Asia-Pacific Conference on Engineering and Applied Science (APCEAS 2016), Tokyo, Japan.
2. Chien-Hung Liu and Shu-Ling Chen (2016), “Evaluation of Cloud Testing Strategies Based on Task Decomposition and Allocation for Improving Test Efficiency,” In Proceedings of the 2016 International Conference on Applied System Innovation (ICASI 2016), Okinawa, Japan.
3. Chien-Hung Liu and Shu-Ling Chen (2015), “A Test Model for JavaScript Web Applications Based on Hierarchical State Machines,” In Proceedings of Asia-Pacific Conference on Engineering and Applied Science (APCEAS 2015), Osaka, Japan, 111-119.
4. Chien-Hung Liu, Shu-Ling Chen, and Woei-Kae Chen (2015), “Improving Resource Utilization of a Cloud-Based Testing Platform for Android Applications,” In Proceedings of 2015 IEEE International Conference on Mobile Services, New York City, USA, 202-208.
5. Wen-Hung Tseng, Kao-Cheng Lin, Jengjung Fang, Shu-Ling Chen, and Chien-Chih Wang (2015), “Risk Management of Crashed Aircraft Rescue Drill – A Case Study of Tainan Airport,” In Proceedings of the 2015 Conference on Technology and Practice for Business and Management Teachers & the Seventh South District Masters of Management Symposium, Tainan City, Taiwan, May 29 2015.
6. Wen-Hung Tseng, Shu-Ling Chen, Kao-Cheng Lin, Jengjung Fang, and Chun-Hsien Yu (2015), “Risk Management of Military Aircraft Armaments Suspend – A Case Study of Tainan Airport,” In Proceedings of the 2015 Conference on Technology and Practice for Business and Management Teachers & the Seventh South District Masters of Management Symposium, Tainan City, Taiwan.
7. Wen-Hung Tseng, Jengjung Fang, Kao-Cheng Lin, Shu-Ling Chen, and Yi-Chin Lin (2015), “A Simulation Study of Pull Production Systems,” In Proceedings of the 2015 Conference on Technology and Practice for Business and Management Teachers & the Seventh South District Masters of Management Symposium, Tainan City, Taiwan.
8. Chien-Hung Liu, Shu-Ling Chen, and Huang-Ke Chen, “RobotDroid - A Keyword-Driven Testing Tool for Android Applications,” In Proceedings of 2014 International Computer Symposium (ICS), Taichung, Taiwan, 376-385.
9. Wen-Hung Tseng, Shu-Ling Chen, WuRong Shih, Kao-Cheng Lin, and Kai-Chien Yang (2014), “Application of Project Management on the Military Vehicle Maintenance

- Planning,” In Proceedings of the 2014 Industrial Management and Application Conference (IMIAI 2014), Tainan City, Taiwan.
10. Shu-Ling Chen, Wen-Ren Tsai, Wen-Hung Tseng, and Yu-Chien Chang (2014), “A Study on Motorcycle Purchasing Behavior – The Case of Southern Taiwan University of Science and Technology,” In Proceedings of the 2014 Industrial Management and Application Conference (IMIAI 2014), Tainan City, Taiwan.
 11. Wen-Ren Tsai and Shu-Ling Chen, “Using Experimental Design to Explore the Optimum Web Design for e-Business,” In Proceedings of the 2014 Industrial Management and Application Conference (IMIAI 2014), Tainan City, Taiwan, 2014.
 12. Chien-Hung Liu, Shu-Ling Chen, Hao-Yuan Lyua, and Chuan-Ming Liu (2014), “A Cost-Benefit Analysis Process for Cloud-Based Parallelized Testing from the User’s Perspective,” In Proceedings of the 4th International Conference on Engineering and Applied Science, Sapporo, Japan, 837-845.
 13. Chien-Hung Liu, Shu-Ling Chen, and Huang-Ke Chen (2014), “A Data-Driven and Keyword-Driven Testing Framework for Android Applications,” In Proceedings of the 10th Taiwan Conference on Software Engineering (TCSE), Nantou, Taiwan, 51-56.
 14. Chien-Hung Liu, Shu-Ling Chen, Tien-Chi Huang, and Chi-Hsuan Chen (2014), “A Program Slicing Tool for Embedded Software,” In Proceedings of the 10th Taiwan Conference on Software Engineering (TCSE), Nantou, Taiwan, 183-188.
 15. Wen-Hung Tseng, Kao-Cheng Lin, Jengjung Fang, Shu-Ling Chen, and Chun-Hsien Li (2014), “Application of Project Management on the Military Aircraft Maintenance Planning,” In Proceedings of the 2014 Symposium on Global Business Operation and Management, Kaohsiung, Taiwan.
 16. Wen-Hung Tseng, WuRong Shih, Shu-Ling Chen, Chin-Lu Chyu, and Kun-Dai Kao (2014), “Risk Management of Aircraft Engine Maintenance—A Case Study of Tainan Airport,” In Proceedings of the 2014 Symposium on Global Business Operation and Management, Kaohsiung, Taiwan.
 17. Chien-Hung Liu, Shu-Ling Chen, and Hsien-Liang Lin (2013), “Parallel Testing Strategies for Cloud Testing,” In Proceedings of the 2013 National Computer Symposium (Workshop on Software Engineering and Programming Language), Taichung city, Taiwan.
 18. Shu-Ling Chen and Po-Hung Lin (2013), “A Case Study on Information System Conversion Process,” In Proceedings of the 2013 Industrial Management and Application Conference (IMIAI 2013), Tainan City, Taiwan.
 19. Shu-Ling Chen, Wen-Hung Tseng, Hsiang-Hao Yen, and Yi-Wen Chung (2013), “The Study of Factors Affecting Consumers' Purchase of Swimming Goggles,” In Proceedings of the 2013 Industrial Management and Application Conference (IMIAI

- 2013), Tainan City, Taiwan.
20. Shu-Ling Chen and Kuan-Ta Chen (2013), "An Exploratory Study on Consumer Behavior of Handshake Beverage from the Brand Equity Perspective," In Proceedings of the 2013 Industrial Management and Application Conference (IMIAI 2013), Tainan City, Taiwan.
 21. Chien-Hung Liu and Shu-Ling Chen (2013), "Classifying Dynamic Pages for Supporting JSP-Based Web Application Testing," In Proceedings of the 2013 2nd International Conference on Information Technology and Management Innovation, Zhuhai, China.
 22. Chien-Hung Liu, Shu-Ling Chen, and Hao-Yuan Lu (2013), "An Approach to Improving the Cost-Effectiveness of Cloud Testing," In Proceedings of the 9th Taiwan Conference on Software Engineering (TCSE), Kaohsiung, Taiwan, 445-450.
 23. Chien-Hung Liu, Shu-Ling Chen, and Hsing-Ju Ke (2013), "Improving Android Compatibility Testing Efficiency Based on Cloud Testing," In Proceedings of the 9th Taiwan Conference on Software Engineering (TCSE), Kaohsiung, Taiwan, 293-298.
 24. Wen-Hung Tseng, WuRong Shih, Shu-Ling Chen, Kao-Cheng Lin, Chung-Cheng Huang, and Wen-Chuan Tsai (2013), "A Simulation Study of Multi-CONWIP Production Systems," In Proceedings of the 2013 Symposium on Practical Applications of E-Business, Tainan City, Taiwan.
 25. Chien-Hung Liu, Shu-Ling Chen, and Tien-Chi Huang (2012), "A Model-Based Testing Tool for Embedded Software," In Proceedings of the Sixth International Conference on Genetic and Evolutionary Computing, Kitakyushu, Japan, 180-183.
 26. Chien-Hung Liu, Shu-Ling Chen, and Hsien-Liang Lin (2012), "A Framework for Cloud Testing based on MapReduce," In Proceedings of the 8th Taiwan Conference on Software Engineering (TCSE), Taipei, Taiwan, 160-165.
 27. Chien-Hung Liu, Shu-Ling Chen, and Tien-Chi Huang (2012), "An Open Source Embedded Software Analysis and Testing Tool," In Proceedings of the 8th Taiwan Conference on Software Engineering (TCSE), Taipei, Taiwan, 53-58.
 28. Shu-Ling Chen, Ruei-Lien Wei, Po-Wei Huang, Tung-Yeh Yang, and Kuan-Hsing Lin (2012), "Exploring Consumer Behavior on Using the Check-in Service of Facebook," In Proceedings of the 9th Conference of Service Management and Innovation, Tainan City, Taiwan.
 29. Shu-Ling Chen and Chieh-Yu Huang (2012), "A Study on Applying Online Analytical Processing to Plant Yield Control," In Proceedings of the 2012 Symposium on Commerce Management and Innovation Design, Tainan City, Taiwan.
 30. Shu-Ling Chen, Yu-Chang Cheng, Chin-Tien Chiu, and Yu-Fan Cheng (2012), "The Influences of Credit Risk Management Mechanisms on Internet Shopping Intention of Taiwan Consumers: Evidence from Yahoo! Auctions Taiwan," In Proceedings of

the First Central Taiwan Industrial Forum and the Conference on Service Innovation and Management, Taichung City, Taiwan.

31. Chien-Hung Liu, Shu-Ling Chen, and Teng-Yi Huang (2011), "Data Flow Testing of OWL-S Service Compositions," In Proceedings of the 2011 National Computer Symposium (Workshop on Software Engineering and Programming Language), Chiayi, Taiwan, 34-43.
32. Chien-Hung Liu, Shu-Ling Chen, Jong Yih Kuo, and Teng-Yi Huang (2011), "A Flow Graph-Based Test Model for OWL-S Web Services," In Proceedings of the 2011 International Conference on Machine Learning and Cybernetics (ICMLC), Guilin, Guangxi, China, 897-902.
33. Chien-Hung Liu, Shu-Ling Chen, and Wei-Lun Jhu (2011), "Impact Analysis of Aspect Weaving to Object-Oriented Programs," In Proceedings of the 2011 Joint Conference on 7th Taiwan Software Engineering (TCSE) and the 22nd Object-Oriented Technology and Applications (OOTA), Taipei, Taiwan, 498-504.
34. Chien-Hung Liu, Shu-Ling Chen, and Wei-Yu Chen (2011), "Using Program Slicing for the Analysis of Embedded Software," In Proceedings of the 2011 Joint Conference on 7th Taiwan Software Engineering (TCSE) and the 22nd Object-Oriented Technology and Applications (OOTA), Taipei, Taiwan, 419-424.
35. Chien-Hung Liu, Shu-Ling Chen, and Ten-Yo Lin (2011), "Change Impact Analysis of WS-BPEL Process," In Proceedings of the 2011 Joint Conference on 7th Taiwan Software Engineering (TCSE) and the 22nd Object-Oriented Technology and Applications (OOTA), Taipei, Taiwan, 312-318.
36. Shu-Ling Chen, and Guan-Ting Huang (2011), "Applying Data Mining Technology to Public Library Readers' Book Borrowing Behavior," In Proceedings of the 12th Conference on E-Business Operations Management Theory and Practices, Changhua, Taiwan.
37. Shu-Ling Chen, and Ping-Yao Huang (2011), "The Study on Relationship among Service Quality, Brand Image, Customer Satisfaction and Customer Loyalty of Mobile Telecommunications Industry," In Proceedings of the 2011 Conference on Taiwan Business Management Theory and Practices, Tainan City, Taiwan.
38. Shu-Ling Chen, and Tsan-Feng We (2011), "The Study of Parameters Optimization on MOCVD for MQW Layer of LED," In Proceedings of the 2011 Symposium on Global Business Operation and Management, Kaohsiung, Taiwan, 1178-1188.
39. Chien-Hung Liu, Shu-Ling Chen, and Wei-Lun Jhu (2011), "Change Impact Analysis for Object-Oriented Programs Evolved to Aspect-Oriented Programs," In Proceedings of the 26th ACM Symposium on Applied Computing (SAC2011), Taichung City, Taiwan, 59-65.

Books:

- Blank, Leland and Tarquin, Anthony (2014). *Engineering Economy* (Wen-Hung Tseng, Shu-Ling Chen, Sh-Ling Fan, and Jui-Min Hsiao, Trans.), 7th Edition (Chinese translation), Taiwan, Tsang Hai Book Publishing. (Original work published 2011, McGraw-Hill).

Dissertation:

- Chen, Shu-Ling (2002). *A Hybrid Genetic Algorithm for the Design of Integrated Production and Distribution Systems*, Ph.D. Dissertation, University of Texas, Arlington.

Entrusted Practical Projects

1. Chen, Shu-Ling (2016). Translation of Engineering Economy Textbook. 2016/07/01 – 2016/11/30. 311050318.
2. Chen, Shu-Ling (2015). Government industry-university project, “Integration plan of industrial 4.0 for small and medium enterprises,” 2015/05 – 2015/10. 311040335.
3. Chen, Shu-Ling (2014). Government industry-university project, “Integration plan of manufacturing services of steam locomotive spare parts and innovation value-added of ICT,” 2014/05 – 2014/10. 311030288.
4. Chen, Shu-Ling (2013). Industry-university project, “The study of locomotive brand awareness and purchasing behavior,” 2013/12 – 2014/06. 311020428.
5. Chen, Shu-Ling (2013). Government industry-university project, “Upgrade plan of Clustering industry knowledge application of steam locomotive spare parts,” 2013/06 – 2013/11. 311020220.
6. Chen, Shu-Ling (2012). Industry-university project, “Import planning of project progress planning and process control platform,” 2012/05 – 2012/10. 311000385.
7. Chen, Shu-Ling (2011). Industry-university project, “The setup of an e-commerce platform,” 2011/12 – 2012/05. 311000165.
8. Chen, Shu-Ling (2011). Government industry-university project, “The diagnostic evaluation of research and development collaboration,” 2011/07-2011/12. 310990457.

Honors and Awards

1. *Best Paper Award at the 2016 International Conference on Applied System Innovation (ICASI 2016), Okinawa, Japan, May 28-June 1 2016.*

Chien-Hung Liu and Shu-Ling Chen, “Evaluation of Cloud Testing Strategies Based on Task Decomposition and Allocation for Improving Test Efficiency.”

2. Excellent mentor award, Southern Taiwan University of Science and Technology, 2015/07.
3. *Best Paper Award at the 2013 National Computer Symposium for Workshop on Software Engineering and Programming Language, Taichung city, Taiwan, Dec. 13-14 2013.*
Chien-Hung Liu, Shu-Ling Chen, and Hsien-Liang Lin, "Parallel Testing Strategies for Cloud Testing."
4. Senior Reward for academic year 2013, Ministry of Education, 2013/09.
5. Excellent Teacher Award of ERP certification promotion, Chinese Enterprise Planning Society, 2012/01.
6. Excellent Teacher Award of distribution modules certification of DSC ERP software application, Data Systems Consulting Co., Ltd. (DSC), 2011/08.

Professional Certifications

1. Web programming, 232130900000800, Foundation of ROC computer skills, 2013/09.
2. Microsoft Office Master 2010, Microsoft, 2013/01.
3. Microsoft Office Specialist for Office Excel 2010 Expert, Microsoft, 2013/01.
4. SAP Certified Business Associate with SAP ERP 6.0, 0009857524, SAP, 2012/09.
5. SAP Business One Implement Consultant Certification, 12STS0208007, Builder Taiwan Education Service, 2012/09.
6. Microsoft Office Specialist for Office Access 2010, Microsoft, 2012/08.
7. Microsoft Office Specialist Word 2010 Expert, Microsoft, 2012/07.
8. Microsoft Office Specialist PowerPoint 2010, Microsoft, 2012/07.
9. ERP Application Engineer for Financial module, CERPS1203209, Chinese Enterprise Resource Planning Society, 2012/06.
10. E-Business Application Engineer of Global Logistics for Sea Freight Module, CERPS1201727, Chinese Enterprise Resource Planning Society, 2012/03.
11. ERP Application Engineer for Distribution Module of SAP ECC6.0, CERPS1201150, Chinese Enterprise Planning Society, 2012/01.
12. ERP Application Engineer for Manufacturing Module of SAP ECC6.0, CERPS1100397, Chinese Enterprise Planning Society, 2011/11.
13. E-business planner (Internet Marketing), EP-00830-0017, Foundation of ROC computer skills, 2011/09.

14. Object-oriented programming language, SPJP110900005, Techficiency Quotient Certification, 2011/09.

Academic and Professional Service

1. Competent committee of College of Business and Management, Southern Taiwan University of Science and Technology, 2016/02 - 2016/07.
2. Grants review committee of compiling teaching materials and aids, Southern Taiwan University of Science and Technology, 2015/08 - 2016/07.
3. Committee of degree examination, National Tainan University, 2015/06.
4. Reviewer of Journal of Taiwan Management, 2015/03.
5. Delegate of school meeting, Southern Taiwan University of Science and Technology, 2015/02 - 2016/07.
6. Mentor of Class at Department of Industrial Management and Information, Southern Taiwan University of Science and Technology, 2015/02 - 2016/07.
7. Consultant of Builder Technology Co., Ltd., 2012/08 to present.
8. Proctor of MOS (Microsoft Office Specialist) of Authorized Certification Center, Elite Information Technology Company (Authorized Exam Distributor of Microsoft Office Specialist), 2011/08 - 2013/01.