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Education

- PhD, Department of Industrial Engineering and Management, National Chiao Tung University, 2004/07
- Master, Department of Management Science, I-Shou University, 1997/06

Area of Specialty

- Quality Management

Academic Experience

- Assistant Professor, Department of Industrial Management and Information, Southern Taiwan University of Science and Technology, 2004/08 to present

Publications

Journal Papers

1. C.-T. Su, T. Yang, and P.-S. Wang "An optimal yield mapping approach for liquid crystal displays," *Journal of Quality*, pp.283-294, December 2004 [EI]
2. C.-T. Su, P.-S. Wang and C.-C. Hsu, "Effective Approaches for low temperature poly silicon TFT LCD post-mapping yield control problem," *IEEE Transactions on Automation Science and Engineering*, Vol.2, no.2, pp.198-206, April 2005 [SCI]
3. P.-S. Wang and C.-T. Su, "An optimal yield mapping approach for the small and medium sized liquid crystal displays," *International Journal of Advanced Manufacturing Technology*, Vol.27, pp.985-989, February 2006 [SCI]
4. J.-J. Fang, J.-S. Yang, P.-S. Wang, and C.-H. Wu, "Apply central composite design for the process parameter optimization on the aquatic feed production process," *Journal of Quantitative Management*, Vol.13, no.1, pp.1-12, June 2016.
5. Peng-Sen Wang, Taho Yang, and Min-Chih Chang, "Effective layout designs for the Shojinka control problem for a TFT-LCD module assembly line," *Journal of Manufacturing Systems*, Vol.44, pp.255-269, July 2017 [SCI]
6. Peng-Sen Wang, Jeng-Jung Fang, and Yu-Chun Tsai, "A study of tourist behavior on the eco-farms and leisure farms," *Cardinal Tien Junior College of Healthcare and Management*, No.15, pp.5-23, December 2017.
7. Jeng-Jung Fang, Jin-Shan Yang, Peng-Seng Wang, Shui-Long Mao and Jing-Wun LI, "Application of experimental design on the parametric optimization of Image contrast in automatic optical Inspection", *Journal of Far East University*, Vol.35, no.1, pp.1-14, April 2018.
8. Jeng-Jung Fang, Jin-Shan Yang, Peng-Seng Wang, Shang-Chih Hsu and Szu-Hao Hsu, "The Parameter Optimization on the process of Plasma Thermal Spray", *Journal of Kao Yuan University*, Vol.23, pp.7-16, June 2018.
9. Peng-Sen Wang, Taho Yang, and Yi-Ju Chen, "Study of Optimal Number of Workers in Crashing Plan for Construction Industry," *Journal of STUST: Social Science Edition*, Vol.3, no.1, pp.55-72, June 2018.
10. Jeng-Jung Fang, Jin-Shan Yang, Peng-Seng Wang, Wen-Hsien Hsu and Yu-Ping Shih, "Application of Experimental Design for the Parameter Optimization on the Process of Lithium Battery Separators", *Journal of STUST: Engineering Science Edition*, Vol.3, no.2, pp.10-23, September

2018.

11. Peng-Sen Wang, Taho Yang, and Liang-Chiuan Yu, "Lean-pull strategy for order scheduling problem in a multi-site semiconductor crystal ingot-pulling manufacturing company," *Computers & Industrial Engineering*, Vol.125, pp.545-562, November 2018 [SCI]
12. J.-J. Fang, J.-S. Yang, P.-S. Wang, S.-H. Wang and C.-F. Lin, "The parameter optimization of primary treatment on petrochemical wastewater," *Journal of Quantitative Management*, Vol.17, no.1, pp.14-30, June 2020.

Conference Papers

1. J.-J. Fang and P.-S. Wang , "The Analysis of Gauge Repeatability and Reproducibility with Interaction Between Operators and Parts," The 4th International Conference on quality and Reliability, pp.209-216, Beijing, August, 2005.
2. P.-S. Wang and J.-J. Fang, "The Analysis and Comparison of Gauge Variance Estimators" INFORMS 2006 International Hong Kong Conference, June, 2006.
3. P.-S. Wang and J.-J. Fang, "The Optimization of Medicine Formulation Using Mixture Experiments" Proceedings of the International MultiConference of Engineers and Computer Scientists 2010 Vol III, IMECS 2010, March 17-19, 2010, Hong Kong.
4. P.-S. Wang, and C.-L. Huang, "A Practical Application of TRIZ Methodology in the LCD Process Improvement" 2013 Business Innovation and Development Conference, March 15, 2013, Changhua, Taiwan.
5. P.-S. Wang, J.-J. Fang, and N.-C. Chang, "Use ISO 9000 to improve life quality" 2013 Industrial Management and Information Application Innovation Conference, November 1, 2013, Tainan, Taiwan.
6. T. Yang, P.-S. Wang, and L.-C. Yu, "Sales-production Integration e-Kanban System -Case of Semiconductor Crystal Pulling Manufacturing" 2013 Chinese Institute of Industrial Engineers Annual Conference, December 7, 2013, Pingtung, Taiwan.
7. Taho Yang, Peng-Sen Wang, and Min-Chih Chang, "The Optimization of Labor Linearity Problem from TFT-LCD module assembly line" The 1st East Asia Workshop on Industrial Engineering, EAWIE 2014, Nov 7-9, 2014, Japan.
8. Peng-Sen Wang, Jeng-Jung Fang, Yu-Han Sun and Yi-Fen Chen, "Starbucks service quality and product quality satisfaction research" 2016 Industrial Management and Information Application Innovations Conference, November 28, 2016, Tainan, Taiwan.
9. Peng-Sen Wang, Jeng-Jung Fang, Bi-Ling Chien, Hui-Ching Tu and Liang-Jun Chen, "Study on students' house rentals quality and satisfaction – using Southern Taiwan University of Science and Technology as an example" 2016 Industrial Management and Information Application Innovations Conference, November 28, 2016, Tainan, Taiwan.
10. Peng-Sen Wang, Taho Yang, and Yi-Ju Chen, "The use of kanban and simulation optimization in solving the optimal number of workers in crashing plan for construction industry" 2017 Chinese Institute of Industrial Engineers Annual Conference, December 16, 2017, Kaohsiung, Taiwan.
11. Peng-Sen Wang, Jeng-Jung Fang, Shang-Wu Su and Feng-Chi Su, "Study on the application of six sigma to the improvement of complex restaurant service lines" 2018 Industrial Management and Information Application Innovations Conference, November 28, 2018, Tainan, Taiwan.
12. Peng-Sen Wang, Jeng-Jung Fang, Kuo-Ming Hsu and Chun-Hsin Chang, "Research on university students' online game addiction – using students in Southern Taiwan University of Science and Technology as an example" 2018 Industrial Management and Information Application Innovations Conference, November 28, 2018, Tainan, Taiwan.
13. Jeng-Jung Fang, Peng-Sen Wang, Sheng-Li Lin and Tzu-Kuan Liu, "Apply Central Composite Design to Increase the Productivity of Photo Equipment Machines - Based on TFT-LCD Array Process" 2018 Industrial Management and Information Application Innovations Conference, November 28, 2018, Tainan, Taiwan.
14. Peng-Sen Wang, Jeng-Jung Fang, Shang-Wu Su and Yu-Hsin Li, "Application of DMAIC to Improve Clutch Outer of CVT Transmission System" 2019 NTUB Conference for International

Management Practices, December 13, 2019, Taipei, Taiwan.

15. Jeng-Jung Fang, Peng-Sen Wang, Gia-Fong Lin and Xang-Wei Li, "Using Taguchi method to analyze the optimization of the groove engraving and milling process of golf heads" The 2020 Conference on Enterprise Competitiveness & Management, May 15, 2020, Hsinchu, Taiwan.

Dissertation

- P.-S. Wang and C.-T. Su (2004), Effective Approaches for Liquid Crystal Displays Yield Mapping, National Chiao Tung University, Hsinchu, Taiwan.

Books

Professional Certifications

1. Certificate of Quality Engineer, Chinese Society for Quality, 2008/5.
2. Certificate of Quality Technician, Chinese Society for Quality, 2008/6.

Professional Experience

Grants

1. National Science Council, No: NSC 94-2213-E-218 -012 -, "Gauge repeatability and reproducibility with interaction," 2005/8 - 2006/7.
2. National Science Council, No: NSC 98-2221-E-218 -026 - , "Applying response surface methodology, genetic algorithm, artificial neural network, and grey theory on biochemical pharmacy industry for the component optimization of mixture experiment with multiple response variables," 2009/8 - 2010/7.

Entrusted Practical Projects

1. Academia to assist SMEs in science and technology care program, No: 311020233, "Precision Machinery Industry Value Enhancement Program," 2013/6 - 2013/11.
2. Academia to assist SMEs in science and technology care program, No: 111010448, "Cluster automation and information communication introduced into South Taiwan precision machinery industry counseling project," 2012/5 - 2012/10.
3. Tso Long Enterprise Co., Ltd., No: 311000109, "Acceptance sampling and process capability analysis," 2011/11 - 2012/2.
4. Tso Long Enterprise Co., Ltd., No: 311060162, "Lean six sigma management," 2017/5 - 2017/8.
5. E-Hong Casting Co., Ltd., No: 331060321, "5S management techniques," 2017/8 - 2017/9.
6. Jielijun Interior Design Studio., No: 32001080039, "Interior decoration design standard operating system," 2019/1.
7. Kaffa Enterprise Co., Ltd., No: 32001080040, "5S management techniques," 2019/1.

Honors and Awards

Patents