

Jeng-Jung Fang (方正中)

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

Office: D205-3
TEL: 886-6-2533131 ext.4136
FAX: 886-6-2546865
EMAIL: jifang@mail.stust.edu.tw



Education

- PhD, Department of Industrial Engineering and Management, Oklahoma State University, USA, 1995/07
- Master, Department of Industrial Engineering and Management, Oklahoma State University, USA, 1989/06

Area of Specialty

Statistical Process Control, Designs of Experiments, Mixture Experiments,

Academic Experience

- Associate Professor, Department of Management and Information Technology, Southern Taiwan University of Science and Technology, 1995/08 to present

Publications

Journal Papers:

1. Fang, Jengjung and Kenneth E. Case (1996). "Using a Correlation Test for Normality", Journal of Quality Technology, vol. 28, no. 3, pp. 356-362. (SCI).

Conference Papers:

1. Fang, Jeng-Jung, Jing-Sang Yang, Peng-San Wang and Si-Bing Ling (2011),"The Parameter Optimization for the Fermentation of Bacterial Cellulose", 2011 Industry Global Logistic Academic and Practice Conference, pp. 407-418.
2. Fang, Jeng-Jung, Jing-Sang Yang, Peng-San Wang and Gia-Ying Yang (2011), "Apply Regression Analysis and Genetic Algorithm on Optimization of the Fermentation of Bacterial Cellulose", 2011 the 4th Management and Decision Academic Conference, BA321.
3. Fang, Jeng-Jung, Jing-Sang Yang, Peng-San Wang and We-Ming Cheng(2011), "The Gauge Repeatability and Reproducibility for the Nested Problem without Interaction, p.46
4. Wang, Peng-Sen and Jeng-Jung Fang (2010), "The Optimization of Medicine Formulation Using Mixture", International MultiConference of Engineers and Computer Scientists, Hong Kong.
5. Fang, Jeng-Jung, Jing-Sang Yang and Su-Ting Shu (2010), "Apply Taguchi method and Central Composite Designs on the Parameter Optimization for Polariscope Process", 2010 Industrial Engineering and Management Conference.
6. Fang, Jeng-Jung, Jing-Sang Yang and Chern-Ern Wu (2010),"Apply Box-Behnken Design on the Parameter Optimization for Zone Control Chart", 2010 Industrial

Engineering and Management Conference.

7. Fang, Jeng-Jung, Jing-Sang Yang, Wen-Hong Zhen and Ming-I Jiang (2010), "The Study of Parameter Optimization for Polariscope Process", 2010 Cross Strait Management Academic and Practice Conference, pp. 592-597.
8. Fang, Jeng-Jung, Jing-Sang Yang, Peng-San Wang and Kung-Yu Tseng (2010), "Apply Central Composite Design on the Parameter Optimization for Zone Control Chart", 2010 Cross Strait Management Academic and Practice Conference, pp. 609~614.
9. Fang, Jeng-Jung, Jing-Sang Yang, Peng-San Wang and Chauo-Gu Gaou (2010)," Apply Central Composite Design on the Nonconforming Rate Improvement of Plastic Injection Process", 2010 Cross Strait Management Academic and Practice Conference", 575~580.
10. Fang, Jeng-Jung, Jing-Sang Yang and Zhong-Ming Le (2010) , "Apply Central Composite Design, Artificial Neural Network and Genetic Algorithm on the Parameter Optimization of Zone Control Chart", 2010 Global Business and Management Conference", Kaohsiung, pp. 2092~2103.
11. Fang, Jeng-Jung, Jing-Sang Yang, Wen-Hong Zhen, Wang, Peng-Sen and Yu-Yang Hu (2010), "Apply Six-Sigma, Artificial Neural Network and Genetic Algorithm on the Parameter Optimization of Laser-Cutting Process", 2010 Global Business and Management Conference", Kaohsiung, pp. 1962~1970.
12. Fang, Jeng-Jung, Jing-Sang Yang, Wen-Hong Zhen, Wang, Peng-Sen and Gia-Ying Yang (2010), "Apply Central Composite Design, Artificial Neural Network and Genetic Algorithm on the Parameter Optimization of CNC Lathe", 2010 Global Business and Management Conference", Kaohsiung, pp. 2104~2112.
13. Fang, Jeng-Jung, Jing-Sang Yang, Wen-Hong Zhen, Wang, Peng-Sen and Bor-Chen Hsu (2009), "The Study on Measurement Method with Multiple Characteristics", 2009 the 3rd Management and Decision Making Conference, Nan-Hwang University.
14. Fang, Jeng-Jung, Jing-Sang Yang, Wen-Hong Zhen, Wang, Peng-Sen and I-Huang Chou (2009), "The GR&R Study with Interaction under Mixed Model by Control Chart Method", 2009 the 3rd Management and Decision Making Conference, Nan-Hwang University, pp.328~329.
15. Fang, Jeng-Jung, Jing-Sang Yang, Wen-Hong Zhen, Wang, Peng-Sen and I-Huang Chou (2009), "The GR&R Study without Interaction under Mixed Model by Control Chart Method", 2009 Taiwan Business and Management Conference, Far-Eastern University, p.93.
16. Fang, Jeng-Jung, Jing-Sang Yang, Wen-Hong Zhen, Wang, Peng-Sen and Chern-Gi Giang (2009), "Apply Six-Sigma on the Parameter Optimization of LED Laser Cutting Process", 2009 Taiwan Business and Management Conference, Far-Eastern University, p.61 °
17. Fang, Jeng-Jung, Jing-Sang Yang, Wen-Hong Zhen, Wang, Peng-Sen and Churn-Jiar Chen (2009), "Apply Design of Experiment on the Process Improvement of CNC Lathe", 2009 Taiwan Business and Management Conference, Far-Eastern University, p.62.
18. Fang, Jeng-Jung, Jing-Sang Yang, Wen-Hong Zhen, Wang, Peng-Sen and Fang-Jeng Gornng (2009), "The Part Variation Study of Measurement System with Interaction", 2009 Taiwan Business and Management Conference, Far-Eastern University, p.95.
19. Fang, Jeng-Jung, Jing-Sang Yang, Wen-Hong Zhen, Wang, Peng-Sen, Lin, Fang-Zu and Ming-Shing Giang (2009), "The GR&R Study with different Gauges and Operaotrs",

- 2009 Taiwan Business and Management Conference, Far-Eastern University, pp.96.
20. Fang, Jeng-Jung, Jing-Sang Yang, Wen-Hong Zhen and Fang-Jeng Gorng (2008), "The Part Variation Study of Measurement System without Interaction", 2008 Enterprise Internationalization Conference, Chang-Zong University, pp.89.
 21. Fang, Jeng-Jung and Ming-Jer Wu (2007), "Apply Design of Experiments on the development of NCHW-1 alloy wire process", 2007 Technology and Management Conference, Shin-Kao Business College, pp.179~184.
 22. Fang, Jeng-Jung, Ming-Shin Gian, Shan-Dar Wu, Gin-Fan Shiao and Sung-Jen Chen (2007), "The Study of Optimal Formula on the Mixture with Multiple Characteristics", the 12th Grey System Conference, pp.196~205.
 23. Fang, Jeng-Jung and Ming-Hsun Chiang (2007) , "The Study of Optimal Mixture Formulation with Multiple Characteristics",
 24. Fang, Jeng-Jung and Sang-Dar Wu (2007), "The Optimal Parameter Study on the Mixture with Multiple Characteristics of Su-Zeng Capsules", 2007 the 1st Academic and Industry Conference of Industrial Engineering and Management Association, Ming-Ji Technology University, pp.36~.

Books

- Engineering Economy (2006), coauthored with Hwe-Ming Kou, Chi-Chaer Gao and Chan-Hai Co., ISBN 986-157-271-6.

Dissertation

- Fang, Jeng-Jung (1995) "Designs and Models for the Mixture Problem with Categorized Components" Ph.D. Dissertation, Department of Industrial Engineering and Management, Oklahoma State University, USA

Grants

1. Small and Medium Enterprise administration, Ministry of Economic Affairs, "The Process Improvement of Fermentation for Bacterial Cellulose", 2010.
2. Industrial Development Bureau, Ministry of Economic Affairs, "Apply Response Methodology on the Parameter Optimization for the Fermentation of Bacterial Cellulose", 2010.
3. National Science Council Foundation, No: 98-2221-E-218 -026, "Apply Response methodology, Genetic algorithm, Artificial Neural Network and Grey Theory on the Mixture Experiment with Multiple Characteristics of Biochemical Pharmacy Industry", Coworker with Peng-Sen Wang, 2009.
4. National Science Council Foundation, No: NSC- 94-2213-E-218-012, "The Repeatability and Reproducibility Analysis with Interaction Between Products and Operators", Coworker with Peng-Sen Wang, 2005.
5. Uni-President Co., "The Process Improvement Project of the 200Hp Compressor Machine in Aquatic Products Plant", 2005.

Honors and Awards

- Marquis Who's Who in the World, 2009
- National Science Council Research Award, 1997

Professional Experience

- Industrial Engineer, QC Department, Chinese Petroleum Corporation, 1989-1992.

Professional Service

1. Academia-Industry Consortium for Southern Taiwan Science Park, Instructor for Designs of Experiments, 2011.
2. Academia-Industry Consortium for Southern Taiwan Science Park, Instructor for Statistical Process Control and Process Capability Analysis, 2011.
3. Der-Sen Biochemical Technology Co, Instructor for Designs of Experiments, 2010.
4. Ching-Tai Resins Chemical Co., Instructor for Mixture Experiments, 2010.
5. Taiwan Pulp and Paper Co., Instructor for Statistical Process Control and Process Capability Analysis, 2010.
6. TongTai Machinery Co., Instructor for Taguchi Engineering, (2009~2010).
7. Yei-Hwa Industrial Co. Ltd, Instructor for Statistical Process Control and Process Capability Analysis, 2009.
8. Yuen Neng Enterprise Co. Ltd., Instructor for Statistical Process Control and Process Capability Analysis, 2008.
9. Academia-Industry Consortium for Southern Taiwan Science Park, Instructor for Taguchi Engineering, 2008.
10. Uni-President Co. Ltd., Instructor for Regression Analysis, Taguchi Engineering and Designs of Experiments, 2007-2008.
11. Coretronic Corp., Instructor for Statistical Process Control and Six-Sigma, 2006.