


<b>Min-Tsai Lai (賴明材)</b>		
Department of Business Administration Southern Taiwan University of Science and Technology No. 1, Nan-Tai Street, Yong Kang Dist., Tainan 71005, Taiwan	Office: L107 TEL: 886-6-2533131 ext.2100 FAX: 886-6-2537622 EMAIL: <a href="mailto:lai1962@stust.edu.tw">lai1962@stust.edu.tw</a>	

### **Education**

- PhD, Industrial Engineering, National Tsing-Hua University, 1990/7.
- Master, Industrial Engineering, National Tsing-Hua University, 1986/7.
- B.S., Department of Statistics, National Cheng Kung University, 1984/7.

### **Area of Specialty**

- Operations Research
- Statistical Application
- Operations Management

### **Academic and Work Experience**

- Dean, Office of Academic Affairs, Southern Taiwan University of Science and Technology, 2014/8 to present.
- Dean, College of Business, Southern Taiwan University of Science and Technology, 2009/2 to 2014/07.
- Dean, College of Management, Southern Taiwan University of Science and Technology, 2008/7 to 2009/1.
- Professor, Department of Business Administration, Southern Taiwan University of Science and Technology, 2008/2 to present.
- Associate Professor & Chairman, Department of Business Administration, Southern Taiwan University of Science and Technology, 2003/8 to 2008/1.
- Associate Professor, Department of Management and Information Technology, Southern Taiwan University of Science and Technology, 2003/1 to 2003/7.
- Associate Professor, Department of Industrial Management; Dean of the General Affairs Office, Southern Taiwan University of Science and Technology, 1998/8 to 2002/12.
- Associate Professor, Department of Industrial Management; Dean of the General Affairs Office, Nan-Tai Institute of Technology, 1996/8 to 1998/7.
- Associate Professor, Department of Industrial Engineering and Management, Dean of the General Affairs Office, Nan-Tai Junior College, 1996/2 to 1996/7.
- Associate Professor and Chairman, Department of Industrial Engineering and Management, Nan-Tai Junior College, 1992/8 to 1996/1.
- Associate Professor & Chairman, Department of Business Administration, Nan-Tai Junior College, Tainan, 1991/8 to 1992/7.
- Associate Professor, Department of Industrial Management, Chung Hua University, 1990/8 to 1991/7.
- Instructor, Department of Industrial Management, Van Nung Institute of Industry, 1988/8 to 1990/7.

## Publications

### **Journal Papers:**

1. **Min-Tsai Lai** and Shih-Chih Chen, A bivariate optimal replacement policy with cumulative repair cost limit under cumulative damage model, *Sadhana*, 41(5), pp.497-505, 2016. [SCI] MOST 104-2410-H-218 -012 -MY2.
2. **Min-Tsai Lai** and Huey Yan, Optimal number of minimal repairs with cumulative repair cost limit for a two-unit system with failure rate interactions, *International Journal of Systems Science* , 47(2), pp.466-473, 2016. [SCI] NSC100-2410-H-218-006-MY2.
3. Shih-Chih Chen, Din Jong and **Min-Tsai Lai**, Assessing the Relationship between Technology Readiness and Continuance Intention in an e-Appointment System: Relationship Quality as a Mediator, *Journal of Medical Systems*, 38(9), pp.1-12, 2014. [SCI]
4. Shih-Chih Chen, Yu-Bin Chiu, **Min-Tsai Lai**, Chih-Hung Wu, Huei-Huang Chen and Shin-Yin Zhang, An Empirical Study of Users' Loyalty on Virtual Communities: The Prospective of Fundamental Interpersonal Relations Orientation, *Journal of e-Business*, 16(3), pp.309-338, 2014. (in Chinese) [TSSCI]
5. **Min-Tsai Lai**, Optimal number of Minimal Repairs under a Cumulative Damage Model with Cumulative Repair Cost Limit. *Eksploracja i Niezawodność–Maintenance and Reliability*, 16(3), pp.464-471, 2014. [SCI]
6. **Min-Tsai Lai**, Optimal Replacement Period with Repair Cost Limit and Cumulative Damage Model. *Eksploracja i Niezawodność–Maintenance and Reliability*, 16(2), pp.246-252, 2014. [SCI] NSC 99-2410-H-218 -016.
7. **Min-Tsai Lai** and Cheng-Yang Chang, Study of the Relationships among service quality, perceived value, customer satisfaction and recommendation intention: A Study of bookkeeping industry in Tainan. *Journal of Southern Taiwan University of Science and Technology*, 38(4), pp.1-16, 2013. (in Chinese)
8. **Min-Tsai Lai**, Optimum number of minimal repair for a system under increasing failure rate shock model with cumulative repair-cost limit, *International Journal of Reliability and Safety*, 7(2), pp.95-107, 2013. [EI] NSC97-2410-H-218-014- MY2.
9. **Min-Tsai Lai**, Replacement Model with cumulative repair cost limit for a two-unit system under failure rate interaction between units, *International Journal of Reliability, Quality and Safety Engineering*, 19(5), pp.1-14, 2012. [EI] NSC 100-2410-H- 218-006-MY2
10. **Min-Tsai Lai** and Chung-Wen Hung, Preventive replacement policy with cumulative repair-cost limit for a system under increasing failure rate shock model, *International Journal of Productivity and Quality Management*, 9(4), pp.423-436, 2012. NSC97-2410-H-218-014-MY2

### **Conference Papers:**

1. **Min-Tsai Lai**, Two-parameter replacement policy with double repair cost limits for a system under increasing failure rate model, 2016 International Conference on Quality, Reliability, Risk, Maintenance, and Safety Engineering (QR2MSE2016) & 2016 World Congress on Engineering Asset Management (WCEAM 2016), Jiuzhaigou, Sichuan, China.
2. **Min-Tsai Lai** and Taqwa Hariguna, Periodical replacement model for a One-unit System with Double Repair Cost Limits, 2015 International Conference on Advances

in Management Science and Engineering, 2015/07, Phuket, Thailand.

3. **Min-Tsai Lai**, Discrete Replacement Policy with Cumulative Repair Cost Limit for a Two-Unit System under Failure Rate Interaction, 2013 International Conference on Business and Information, 2013/07, Bali, Indonesia.
4. **Min-Tsai Lai**, Discrete replacement policy for a system under increasing failure rate shock model based on cumulative repair-cost limit, 2012 International Conference on Business and Information, 2012/07, Sapporo, Japan.
5. **Min-Tsai Lai** and Cheng-Yang Chang, The relationships of service quality, perceived value, customer satisfaction and willingness to recommend for bookkeeping business, An empirical study of Tainan area of Taiwan, The 9th Conference on Services and Innovation Management, 2012/05, Southern Taiwan University of Science and technology. (in Chinese)

### **Dissertation**

1. Min-Tsai Lai (1990), "Studies on optimal replacement policies in terms of stochastic process methodologies," Ph.D. Dissertation, National Tsing-Hua University.

### **Grants**

1. Ministry of Education, No: 721050127-GP, 2016 Project for enhancing the ability of practice of teachers and students in Science and Technology University, NT. 8,705,928, 2016/7 – 2017/6.
2. Ministry of Education, No: 721040165-GP, Enhancing the University 's Professional Management Ability Project in Science and Technology University(1st Year), NT.2,600,000, 2015/8 – 2016/7.
3. Ministry of Science and Technology, No: MOST 104-2410-H-218-012-MY2, Multi-criteria Preventive replacement models by combining the concepts of single and cumulative repair cost limit under different shock models, NT. 955,000, 2015/8--2017/7.
4. Ministry of Education, No: 721040100-GP, 2015 Project for enhancing the ability of practice of teachers and students in Science and Technology University, NT. 6,483,480, 2015/7 – 2016/6.
5. Ministry of Education, No: 721040107-GP, 2015 Project for enhancing the development of practical courses in Science and Technology University, NT. 1,360,000, 2015/7 – 2016/6.
6. Ministry of Education, No: 321030210-GP, 2014 Project for enhancing Full-English Degree program of Science and Technology University, NT.3,080,000, 2014/11 – 2016/1.
7. Ministry of Science and Technology, No: MOST 103-2410-H-218-005, Preventive Replacement Models with Cumulative Repair Cost limit for a two-unit system under shock damage interaction between units, NT. 339,000, 2014/8--2015/7.
8. Ministry of Education, No: 321010010-GP, 2012 Information and Communication Security Program Project , NT.1,875,000, 2012/2 – 2013/1.
9. National Science Council, No: NSC-100-2410-H-218-006-MY2, Preventive Replacement Models with Cumulative Repair Cost limit for a two-unit system under failure rate interaction between units, NT. 1,010,000, 2011/8--2013/7.

### **Entrusted Practical Researches**

1. Metal Industries Research & Development Center, No: 321040331, SME Towards Industrial 4.0 Integrated Planning, NT. 72,000, 2015/5—2015/10.
2. Metal Industries Research & Development Center, No: 321040331 & 321030283, Steam Turbine Parts Manufacturing Service and ICT Innovation Integration Plan, NT. 192,000, 2014/5—2014/10.
3. Metal Industries Research & Development Center, No: 321020210, Improve the application of knowledge plan of automobiles cluster industry, NT. 72,000 · 2013/6—2013/11.
4. Metal Industries Research & Development Center, No: 321000059, Diagnosis of production processes and inventory management improvement, NT. 60,000, 2011/8—2011/12.

### **Professional Certifications**

1. Business Intelligence Planners, No: BIP11CE00608, Chinese Enterprise Resource Planning Society, 2011/03.
2. MOS -Excel 2007 Expert, No: 6688601, Microsoft Corporation/Elite Information Technology Company, 2010/05.
3. MOS-Word 2007 Expert, No: 6688601, Microsoft Corporation/Elite Information Technology Company, 2010/05.
4. MOS-PowerPoint 2007 Expert, No: 6688601, Microsoft Corporation/Elite Information Technology Company, 2010/05.
5. MOS-Outlook 2007 Expert, No: 6688601, Microsoft Corporation/Elite Information Technology Company, 2010/05.
6. Microsoft Office 2007 Master, No: 6688601, Microsoft Corporation/Elite Information Technology Company, 2010/05.
7. IC3 Certification, CERTIPORT, 2009/10.

### **Academic and Professional Service**

1. Reviewer, Journal of the Operational Research Society, 2016/06—2016/07.
2. Reviewer, International Journal of Production Research, 2016/01—2016/02.
3. Chief-Editor, Journal of Southern Taiwan University of Science and technology, Engineering(Social Science Edition), 2016/01—.
4. Chief-Editor, Journal of Southern Taiwan University of Science and technology, Engineering(Engineering Science Edition), 2016/01—.
5. Reviewer, International Journal of Production Research, 2015/12—2016/01.
6. Review committee member, Teachers literary work upgrade, Ling Tung University, 2015/10—2015/11.
7. Self-evaluation committee member, Department of Business Administration, Vanung University, 2015/08—2015/09.
8. Self-evaluation committee member, Department of Business Administration, Nan Kai University of Technology, 2015/03—2015/12.
9. Reviewer, International Journal of Systems Science-Operations & Logistics, 2015/02—2015/03.
10. Reviewer, Journal of Quality in Maintenance Engineering, 2014/12—2015/01.
11. Reviewer, International Journal of Production Research, 2014/10—2014/12.

12. Reviewer, International Journal of Production Research, 2014/09—2014/11.
13. Chief-Editor, Journal of Southern Taiwan University of Science and technology, Engineering, 2014/08—2015/12.
14. Faculty Development committee member, college of Management, Ming-Hsin University of Science and Technology, 2014/06—2014/07.
15. Reviewer, Reliability Engineering & System Safety, 2014/06—2014/07.
16. Reviewer, International Journal of Systems Science-Operations & Logistics, 2014/06—2014/07.
17. Courses committee member, college of Management, Kaohsiung First University of Science and Technology, 2014/05—2014/06.
18. Reviewer, Journal of Quality in Maintenance Engineering, 2014/05—2014/06.
19. Reviewer, European Journal of Operational Research, 2014/04—2014/06.
20. Reviewer, International Journal of Production Research, 2014/04—2014/05.
21. Review committee member, Teachers literary work upgrade, Chung Hwa University of Medical Technology, 2014/04—2014/04.
22. Review committee member, Teachers literary work upgrade, Ministry of Education, 2013/11—2013/12.
23. Chairman, Chinese Society Service Management, 2013/10 until now.
24. Review committee member, Teachers literary work upgrade, Ministry of Education, 2013/03—2013/04.
25. Reviewer, International Journal of Systems Science, 2013/03—2013/04.
26. Review committee member, 2013 year NSC Projects, 2013/03—2013/04.
27. Session Chair, 2013 Industry Innovation and Technology Management Conference, 2013/01, Pingtung, Taiwan.
28. Reviewer, International Journal of Systems Science, 2012/11—2013/01.
29. Reviewer, IEEE Transactions on Reliability, 2012/11—2012/12.
30. Reviewer, International Journal of Production Research, 2012/11—2013/01.
31. Review committee member, Teachers literary work upgrade, National Penghu University of Science and Technology, 2012/11—2012/12.
32. Review committee member, Teachers literary work upgrade, National Taichung University of Science and Technology, 2012/11—2012/12.
33. Best Paper Reviewer and Session Chair, 2013 International Conference on the Development and practice of Enterprise Resource management, 2012/10—2013/01.
34. Session Chair, 2012 the 8th Conference on Theories and Practices in International Business, 2012/10, Tainan, Taiwan.
35. Committee Member, Project Evaluation of 101 school year College of Technology, 2012/09—2012/10.
36. Reviewer, Commerce and Management, 2012/07—2013/08.
37. Session Chair, 2012 International Conference on Business and Information, 2012/07, Sapporo, Japan.
38. Reviewer, European Journal of Operational Research, 2012/06—2012/09
39. Reviewer, IEEE Transactions on Reliability, 2012/04—2012/06.
40. Reviewer, Commerce and Management, 2012/04—2013/05.
41. Review committee member, Teachers literary work upgrade, Ministry of Education, 2012/01—2012/02.

42. Review committee member, Teachers literary work upgrade, Vanung University, 2011/12 – 2011/12.
43. Director, Chinese Society for Management of Technology in Kaohsiung, 2011/01 – 2013/01.
44. Session Chair, 2011, the 7<sup>th</sup> Conference on Theories and Practices in International Business, 2011/10, Tainan, Taiwan.
45. Reviewer, Communications in Statistics - Theory and Methods, 2011/09 – 2011/12.
46. Secretary-General, Chinese Society Service Management, 2006/11 – 2013/10.
47. Advisory Committee, Department of International Business in Chang Jung Christian University, 2011/08 – 2012/07.