

A. Selected Referred Papers

1. J-W Wu*, J-B Jang, T-R Tsai. Fuzzy weighted scaled coefficients in semi-parametric model. *Annals of the Institute of Statistical Mathematics* 48(1), 97-110, 1996 (SCI)
2. S-J Wu*, T-R Tsai. Estimation of time-to-failure distribution derived from a degradation model using fuzzy clustering. *Quality and Reliability Engineering International* 16(4), 261-267, 2000 (SCI)
3. J-W Wu, T-R Tsai*, L-Y Ouyang. Limited failure-censored life test for the Weibull distribution. *IEEE Transactions on Reliability* 50(1), 107-111, 2001 (SCI)
4. T-R Tsai*. A modified short-run type II continuous sampling plan. *Quality and Reliability Engineering International* 18(2), 155-161, 2002 (SCI)
5. J-W Wu, T-R Tsai*. Weighted quasi-likelihood estimation based on fuzzy clustering analysis method and dimension reduction technique. *Fuzzy Sets and Systems* 128(3), 353-364, 2002 (SCI)
6. T-R Tsai*. An application of weighted bootstrap method in semi-parametric model. *Information Sciences* 148, 221-231, 2002 (SCI)
7. T-R Tsai*, J-J Lin, S-J Wu, H-C Lin. On estimating control limits of \bar{X} chart when the number of subgroups is small. *International Journal of Advanced Manufacturing Technology* 26(11-12), 1312-1316, 2005 (SCI)
8. T-R Tsai*, S-J Wu. Acceptance sampling based on truncated life tests for generalized Rayleigh distribution. *Journal of Applied Statistics* 33(6), 595-600, 2006 (SCI)
9. T-R Tsai*, S-J Wu, J-J Lin, Y-J Chen. Alternative estimation procedure in SPC when the process data is correlated. *Journal of Statistical Computation and Simulation* 77(7), 575-583, 2007 (SCI)
10. T-R Tsai, Y-T Lu, S-J Wu*. Reliability sampling plan for Weibull distribution with limited capacity of test facility. *Computers and Industrial Engineering* 55(3), 721-728, 2008 (SCI)
11. W Lu, T-R Tsai*. Interval censored sampling plans for the gamma lifetime model. *European Journal of Operational Research* 192(1), 116-124, 2009 (SCI)
12. W. Lu, T-R Tsai*. Interval censored sampling plans for the log-logistic lifetime distribution. *Journal of Applied Statistics* 36(5), 521-536, 2009 (SCI)
13. YL Lio*, T-R Tsai, S-J Wu. Acceptance sampling plans from truncated life tests based on the Birnbaum-Saunders distribution for percentiles. *Communications in Statistics - Simulation and Computation* 39(1), 119-136, 2010 (SCI)
14. T-R Tsai*, C-W Lin. Acceptance sampling plans under progressive interval censoring with likelihood ratio. *Statistical Papers* 51, 259-271, 2010 (SCI)
15. T-R Tsai, P-H Liu, YL Lio*. Optimal maintenance time for Imperfect maintenance actions on repairable products. *Computers & Industrial Engineering* 60, 744-749,

2011 (SCI)

16. T-R Tsai*, W-P Yen. Exponentially weighted moving average control charts for three-level products. *Statistical Papers* 52, 419-429, 2011 (SCI)
17. T-R Tsai, J-Y Chiang, S Chang*. Economic design of two-stage non-central chi-square charts for dependent variables. *Computers & Industrial Engineering* 61(4), 970-980, 2011 (SCI)
18. YL Lio*, T-R Tsai. Estimation of $\delta=P(X<Y)$ for Burr XII distribution based on the progressively first failure-censored samples. *Journal of Applied Statistics* 39(2), 309-322, 2012 (SCI)
19. S Chang*, T-R Tsai, DKJ Lin, S-H Chou, Y-S Lin. Statistical process control for monitoring nonlinear profiles: A six sigma project on curing process. *Quality Engineering* 24, 251-263, 2012 (SCI)
20. MM Alsam*, Y Mahmood, YL Lio, T-R Tsai, MA Khan. Double acceptance sampling plans for Burr type XII distribution percentiles under the truncated life test. *Journal of the Operational Research Society* 63, 1010-1017, 2012 (SCI)
21. T-R Tsai, C-W Lin, Y-L Sung, P-T Chou, C-L Chen, YL Lio*. Inference from lumen degradation data under Wiener diffusion process. *IEEE Transactions on Reliability* 61(3), 710-718, 2012 (SCI)
22. YL Lio*, T-R Tsai, M Aslam, N Jiang. Control charts for monitoring Burr type-X percentiles. *Communications in Statistics - Simulation and Computation* 43(4), 761-776, 2013 (SCI)
23. T-R Tsai*, J-Y Chiang, TC Liang, M-C Yang. Efficient Bayesian sampling plans for exponential distributions with type-I censored samples. *Journal of Statistical Computation and Simulation* 84(5), 964-981, 2014 (SCI)
24. S-H Chou*, S. I. Chang, T-R Tsai. On monitoring of multiple non-linear profiles. *International Journal of Production Research* 52(11), 3209-3224, 2014 (SCI)
25. N-C Su, J-Y Chiang, S-C Chen*, T-R Tsai, Y Shyr. Economic design of two-stage control charts with skewed and dependent measurements. *International Journal of Advanced Manufacturing Technology* 73, 1387-1397, 2014 (SCI)
26. T-R Tsai, YL Lio*, N Jiang. Optimal decisions on the accelerated degradation test plan under the Wiener Process. *Quality Technology and Qualitative Management* 11(4), 461-470, 2014 (SCI)
27. S Chang*, B Tavakkol, S-H Chou, T-R Tsai. Real-time detection of wave profile changes. *Computers & Industrial Engineering* 75, 187-199, 2014 (SCI)
- 28.

29. N Balakrishnan, N Jiang, T-R Tsai, YL Lio*, DG Chen. Reliability inference on composite dynamic systems based on Burr type-XII distribution. *IEEE Transactions on Reliability* 64(1), 144-153, 2015 (SCI)
30. J-Y Chiang, T-R Tsai*, YL Lio, W Lu, D Shi. An integrated approach for the optimization of tolerance design and quality cost. *Computers & Industrial Engineering* 87, 186-192, 2015 (SCI).
31. N Balakrishnan, N Jiang, T-R Tsai, YL Lio*, DG Chen. Reliability inference on composite dynamic systems based on Burr type-XII distribution. *IEEE Transactions on Reliability* 64(1), 144-153, 2015 (SCI)
32. J-Y Chiang, T-R Tsai*, YL Lio, W Lu, D Shi. An integrated approach for the optimization of tolerance design and quality cost. *Computers & Industrial Engineering* 87, 186-192, 2015 (SCI)
33. T-R Tsai*, YL Lio, N Jiang, Y-J Lin, Y-Y Fan. Economical sampling plans with warranty based on truncated data from Burr type XII distribution. *Journal of the Operational Research Society* 66(9), 1511-1518, 2015 (SCI)
34. J-Y Chiang, YL Lio*, T-R Tsai. Degradation tests using geometric Brownian motion process for lumen degradation data. *Quality and Reliability Engineering International* 31, 1797-1806, 2015 (SCI).
35. T-R Tsai, W-Y Sung, YL Lio*, SI Chang, J-C Lu. Optimal two-variable accelerated degradation test plan for gamma degradation process. *IEEE Transactions on Reliability* 65(1), 459-468, 2016 (SCI)
36. J-Y Chiang, N Jiang, TN Brown, T-R Tsai, YL Lio*. Control charts for generalized exponential distribution percentiles. *Communications in Statistics - Simulation and Computation* 46(10), 7827-7843, 2017 (SCI)
37. J-Y Chiang, YL Lio, T-R Tsai*. MEWMA control chart and process capability indices for simple linear profiles with within-profile autocorrelation. *Quality and Reliability Engineering International* 33(5), 1083-1094, 2017 (SCI)
38. J-Y Chiang, J Zhu, T-R Tsai*, YL Lio, N Jiang. An innovative sampling scheme for resubmitted lots by attributes. *International Journal of Advanced Manufacturing Technology* 91(9-12), 4019-4031, 2017 (SCI)
39. W-T Hung, T-R Tsai, Y-C Chang*. Periodical preventive maintenance contract for leased equipment with random failure penalties. *Computers & Industrial Engineering* 113, 437-444, 2017 (SCI)

40. J-Y Chiang, T-R Tsai, N-C Su. Adaptive control charts for skew-normal distribution. *Quality and Reliability Engineering International* 34, 589-608, 2018 (SCI)
41. J-Y Chiang, N Jiang, T-R Tsai, YL Lio*. Inference of $\delta=P(X<Y)$ for Burr XII distributions with record samples. *Communications in Statistics - Simulation and Computation* 47(3): 822-838, 2018 (SCI)
42. J-Y Chiang*, YL Lio, HKT Ng, T-R Tsai, Ting Li. Robust bootstrap control charts for percentiles based on model selection approaches. *Computers and Industrial Engineering*, vol.123: 119-133, 2018 (SCI)
43. J-Y Chiang, S Wang, T-R Tsai*, T Li. Model selection approaches for predicting future order statistics from type II censored data, *Mathematical Problems in Engineering*, Article ID 3465909 29 pages. 2018 (SCI)
44. J-Y Chiang*, YL Lio, HKT Ng, T-R Tsai. Robust control charts for percentiles based on location-scale family of distributions. *Quality and Reliability Engineering International* 34: 1059-1078, 2018 (SCI)
45. T-R Tsai, HKT Ng, H Pham, YL Lio, J-Y Chiang*. Reliability Inference for VGA Adapter from Dual Suppliers Based on Contaminated Type-I Interval-Censored Data. *Quality and Reliability Engineering International* 35: 2297-2313, 2019 (SCI)
46. C-I Li, T-R Tsai*. Linear profiles monitoring in the presence of non-normal random errors. *Quality and Reliability Engineering International* 35: 2579-2592. 2019 (SCI)
47. JM Byrnes, Y-J Lin, T-R Tsai*, YL Lio. Bayesian Inference of $\delta=P(X<Y)$ for Burr Type XII distribution based on progressively first failure-censored samples. *Mathematics* 7(9), 794, 2019 (SCI)
48. S Chang*, Z Zhang, S Koppel, B Malmir, X. Kong, T-R Tsai, D Wang. Retrospective analysis for phase I statistical process control and process capability study using revised sample entropy. *Neural Computing and Applications* 31(11): 7415-7428, 2019 (SCI).
49. S-H Chou*, S Chang, T-R Tsai, DKJ Lin, Y Xia, Y-S Lin. Implementation of statistical process control framework with machine learning on waveform profiles with no gold standard reference. *Computers & Industrial Engineering* 142: 106325 2020
50. T-R Tsai*, S-H Wu, Y Shen. Model selection methods for reliability assessment based on interval-censored field failure samples. *International Journal of Reliability, Quality & Safety Engineering*, 27(6): 2050018 (19 pages) 2020 (ESCI)
51. H Xin, W-J Hsieh, YL Lio, T-R Tsai*. Nonlinear Profile Monitoring Using Spline Func-

tions. Mathematics 8(9): 1588, 2020 (SCI) doi.org/10.3390/math8091588

52. T-R Tsai*, H Xin, C-H Kao. Bayesian estimation based on sequential order statistics for heterogeneous baseline Gompertz distributions. Mathematics 9: 145, 2021 (SCI).
53. X Zheng, J-Y Chiang, T-R Tsai, S Wang*. Estimating the failure rate of the log-logistic distribution by smooth adaptive and bias-correction methods. Computers & Industrial Engineering 156 107188 2021 (SCI).
54. S Wang, J-Y Chiang*, T-R Tsai and Y Qin. Robust process capability indices and statistical inference based on model selection. Computers & Industrial Engineering 156:107265, 2021 (SCI)
55. T-R Tsai, YL Lio, H Xin*, H Pham. Parameter estimation for the composite dynamic systems based on sequential order statistics from Burr type XII mixture distribution. Mathematics 9: 810 2021 (SCI)
56. C-H Wu, T-R Tsai, M-Y Lee*. Two-stage maximum likelihood estimation procedure for parallel constant-stress accelerated degradation tests. IEEE Transactions on Reliability 70(2): 446-458, 2021 (SCI)
57. J Zhu, J Sun, H Xin, C Zheng, T-R Tsai*. Acceptance sampling scheme with warranty for life testing using Bayesian inference methods. Journal of Testing and Evaluation 49(5): 3081-3096 2021 (SCI)
58. J-Y Chiang, T-R Tsai*, H Pham, K Yu, A New Multivariate Control Chart for Monitoring the Quality of a Process with the Aid of Auxiliary Information. Journal of Statistical Computation and Simulation. To appear. 2021_(SCI)
59. T-R Tsai, Y. Lio*, W-C Ting, EM algorithm for mixture distributions model with type-I hybrid censoring scheme. Mathematics. 9(19): 2483, 2021 (SCI)
60. H Xin, J Zhu, T-R Tsai*, C-Y Hung, Hierarchical Bayesian modeling and randomized response method for inferring the sensitive-nature proportion. Mathematics, 9(19): 2518, 2021 (SCI)
61. T-R Tsai, C-M Hung, Y Lio, J-Y Chiang*, HKT Ng, Nonparametric control chart using auxiliary information for smallest extreme value distribution. Journal of Statistical Computation and Simulation. To appear. 2021/10 (SCI)