

Fugee Tsung

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2670382/publications.pdf>

Version: 2024-02-01

161
papers

5,325
citations

81743

39
h-index

106150

65
g-index

167
all docs

167
docs citations

167
times ranked

2012
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring General Linear Profiles Using Multivariate Exponentially Weighted Moving Average Schemes. <i>Technometrics</i> , 2007, 49, 395-408.	1.3	246
2	The internet of things for smart manufacturing: A review. <i>IIE Transactions</i> , 2019, 51, 1190-1216.	1.6	243
3	Pushing Quality Improvement Along Supply Chains. <i>Management Science</i> , 2007, 53, 421-436.	2.4	209
4	A kernel-distance-based multivariate control chart using support vector methods. <i>International Journal of Production Research</i> , 2003, 41, 2975-2989.	4.9	161
5	A Reference-Free Cuscore Chart for Dynamic Mean Change Detection and a Unified Framework for Charting Performance Comparison. <i>Journal of the American Statistical Association</i> , 2006, 101, 368-386.	1.8	145
6	A Multivariate Sign EWMA Control Chart. <i>Technometrics</i> , 2011, 53, 84-97.	1.3	140
7	Monitoring Profiles Based on Nonparametric Regression Methods. <i>Technometrics</i> , 2008, 50, 512-526.	1.3	133
8	Likelihood Ratio-Based Distribution-Free EWMA Control Charts. <i>Journal of Quality Technology</i> , 2010, 42, 174-196.	1.8	121
9	Using Profile Monitoring Techniques for a Data-rich Environment with Huge Sample Size. <i>Quality and Reliability Engineering International</i> , 2005, 21, 677-688.	1.4	112
10	The Autoregressive T^2 Chart for Monitoring Univariate Autocorrelated Processes. <i>Journal of Quality Technology</i> , 2002, 34, 80-96.	1.8	105
11	Dual CUSUM control schemes for detecting a range of mean shifts. <i>IIE Transactions</i> , 2005, 37, 1047-1057.	2.1	105
12	One-class classification-based control charts for multivariate process monitoring. <i>IIE Transactions</i> , 2009, 42, 107-120.	2.1	102
13	A comparison study of effectiveness and robustness of control charts for monitoring process mean. <i>International Journal of Production Economics</i> , 2012, 135, 479-490.	5.1	100
14	A Self-Starting Control Chart for Linear Profiles. <i>Journal of Quality Technology</i> , 2007, 39, 364-375.	1.8	93
15	A LASSO-Based Diagnostic Framework for Multivariate Statistical Process Control. <i>Technometrics</i> , 2011, 53, 297-309.	1.3	92
16	LASSO-based multivariate linear profile monitoring. <i>Annals of Operations Research</i> , 2012, 192, 3-19.	2.6	89
17	Opportunities and challenges of quality engineering for additive manufacturing. <i>Journal of Quality Technology</i> , 2018, 50, 233-252.	1.8	89
18	An improved approach for failure mode and effect analysis involving large group of experts: An application to the healthcare field. <i>Quality Engineering</i> , 2018, 30, 762-775.	0.7	82

#	ARTICLE	IF	CITATIONS
19	Statistical process control for multistage manufacturing and service operations: a review and some extensions. <i>International Journal of Services Operations and Informatics</i> , 2008, 3, 191.	0.2	77
20	A Variable-Selection-Based Multivariate EWMA Chart for Process Monitoring and Diagnosis. <i>Journal of Quality Technology</i> , 2012, 44, 209-230.	1.8	77
21	A spatial rank-based multivariate EWMA control chart. <i>Naval Research Logistics</i> , 2012, 59, 91-110.	1.4	76
22	A DMAIC approach to printed circuit board quality improvement. <i>International Journal of Advanced Manufacturing Technology</i> , 2004, 23, 523-531.	1.5	75
23	Directional MEWMA Schemes for Multistage Process Monitoring and Diagnosis. <i>Journal of Quality Technology</i> , 2008, 40, 407-427.	1.8	65
24	Joint Monitoring of PID-Controlled Processes. <i>Journal of Quality Technology</i> , 1999, 31, 275-285.	1.8	64
25	Statistical monitoring of multi-stage processes based on engineering models. <i>IIE Transactions</i> , 2008, 40, 957-970.	2.1	63
26	False Discovery Rate-Adjusted Charting Schemes for Multistage Process Monitoring and Fault Identification. <i>Technometrics</i> , 2009, 51, 186-205.	1.3	61
27	Profile Monitoring with Binary Data and Random Predictors. <i>Journal of Quality Technology</i> , 2011, 43, 196-208.	1.8	61
28	Monitoring poisson count data with probability control limits when sample sizes are time varying. <i>Naval Research Logistics</i> , 2013, 60, 625-636.	1.4	61
29	A mean-shift pattern study on integration of SPC and APC for process monitoring. <i>IIE Transactions</i> , 2003, 35, 231-242.	2.1	58
30	In-Plane Shape-Deviation Modeling and Compensation for Fused Deposition Modeling Processes. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017, 14, 968-976.	3.4	54
31	Run-Length Performance of Regression Control Charts with Estimated Parameters. <i>Journal of Quality Technology</i> , 2004, 36, 280-292.	1.8	50
32	Autocorrelated process monitoring using triggered cuscore charts. <i>Quality and Reliability Engineering International</i> , 2002, 18, 411-421.	1.4	48
33	Statistical transfer learning: A review and some extensions to statistical process control. <i>Quality Engineering</i> , 2018, 30, 115-128.	0.7	48
34	On the Efficiency and Robustness of Discrete Proportional-Integral Control Schemes. <i>Technometrics</i> , 1998, 40, 214-222.	1.3	46
35	Integrated design of run-to-run PID controller and SPC monitoring for process disturbance rejection. <i>IIE Transactions</i> , 1999, 31, 517-527.	2.1	45
36	Statistical Surface Monitoring by Spatial-Structure Modeling. <i>Journal of Quality Technology</i> , 2014, 46, 359-376.	1.8	45

#	ARTICLE	IF	CITATIONS
37	Effects of estimation errors on cause-selecting charts. IIE Transactions, 2005, 37, 559-567.	2.1	43
38	Adaptive nonparametric CUSUM scheme for detecting unknown shifts in location. International Journal of Production Research, 2014, 52, 1592-1606.	4.9	43
39	Multivariate binomial/multinomial control chart. IIE Transactions, 2014, 46, 526-542.	2.1	43
40	Directional Control Schemes for Multivariate Categorical Processes. Journal of Quality Technology, 2012, 44, 136-154.	1.8	41
41	A robust self-starting spatial rank multivariate EWMA chart based on forward variable selection. Computers and Industrial Engineering, 2017, 103, 116-130.	3.4	41
42	A Statistical Transfer Learning Perspective for Modeling Shape Deviations in Additive Manufacturing. IEEE Robotics and Automation Letters, 2017, 2, 1988-1993.	3.3	40
43	A prediction and compensation scheme for in-plane shape deviation of additive manufacturing with information on process parameters. IIE Transactions, 2018, 50, 394-406.	1.6	40
44	A Change Point Approach for Phase I Analysis in Multistage Processes. Technometrics, 2008, 50, 344-356.	1.3	38
45	Improved design of kernel distance-based charts using support vector methods. IIE Transactions, 2013, 45, 464-476.	2.1	38
46	The dynamic T ² chart for monitoring feedback-controlled processes. IIE Transactions, 2002, 34, 1043-1053.	2.1	37
47	Design of Multiple Cause-Selecting Charts for Multistage Processes with Model Uncertainty. Quality Engineering, 2004, 16, 437-450.	0.7	37
48	Supplier Selection Based on Process Capability and Price Analysis. Quality Engineering, 2006, 18, 123-129.	0.7	37
49	Evolving kernel principal component analysis for fault diagnosis. Computers and Industrial Engineering, 2007, 53, 361-371.	3.4	37
50	A generalized EWMA control chart and its comparison with the optimal EWMA, CUSUM and GLR schemes. Annals of Statistics, 2004, 32, 316.	1.4	36
51	Proportional Integral Derivative Charts for Process Monitoring. Technometrics, 2002, 44, 205-214.	1.3	35
52	Statistical process control for multistage processes with binary outputs. IIE Transactions, 2013, 45, 1008-1023.	2.1	35
53	A new multivariate EWMA scheme for monitoring covariance matrices. International Journal of Production Research, 2014, 52, 2834-2850.	4.9	35
54	Autocorrelated SPC for Non-Normal Situations. Quality and Reliability Engineering International, 2005, 21, 131-161.	1.4	33

#	ARTICLE	IF	CITATIONS
55	A spatial-adaptive sampling procedure for online monitoring of big data streams. <i>Journal of Quality Technology</i> , 2018, 50, 329-343.	1.8	32
56	Run-to-Run Process Adjustment Using Categorical Observations. <i>Journal of Quality Technology</i> , 2007, 39, 312-325.	1.8	31
57	Monitoring autocorrelated processes using variable sampling schemes at fixed-times. <i>Quality and Reliability Engineering International</i> , 2008, 24, 55-69.	1.4	30
58	A general framework for monitoring complex processes with both in-control and out-of-control information. <i>Computers and Industrial Engineering</i> , 2015, 85, 157-168.	3.4	30
59	Online profile monitoring for surgical outcomes using a weighted score test. <i>Journal of Quality Technology</i> , 2018, 50, 88-97.	1.8	30
60	Tolerance Intervals With Improved Coverage Probabilities for Binomial and Poisson Variables. <i>Technometrics</i> , 2009, 51, 25-33.	1.3	29
61	ON MULTISTAGE STATISTICAL PROCESS CONTROL. <i>Journal of the Chinese Institute of Industrial Engineers</i> , 2003, 20, 1-8.	0.5	28
62	Chart allocation strategy for serial-parallel multistage manufacturing processes. <i>IIE Transactions</i> , 2010, 42, 577-588.	2.1	28
63	On the Efficiency and Robustness of Discrete Proportional-Integral Control Schemes. , 0, .		28
64	Real-time quality monitoring and diagnosis for manufacturing process profiles based on deep belief networks. <i>Computers and Industrial Engineering</i> , 2019, 136, 494-503.	3.4	25
65	Modelling and diagnosis of feedback-controlled processes using dynamic PCA and neural networks. <i>International Journal of Production Research</i> , 2003, 41, 365-379.	4.9	24
66	A Diagnostic Procedure for High-Dimensional Data Streams via Missed Discovery Rate Control. <i>Technometrics</i> , 2020, 62, 84-100.	1.3	24
67	A distribution-free robust method for monitoring linear profiles using rank-based regression. <i>IIE Transactions</i> , 2012, 44, 949-963.	2.1	23
68	Impact of information sharing on statistical quality control. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2000, 30, 211-216.	3.4	22
69	Applying manufacturing batch techniques to fraud detection with incomplete customer information. <i>IIE Transactions</i> , 2007, 39, 671-680.	2.1	22
70	Nonparametric monitoring of multivariate data via KNN learning. <i>International Journal of Production Research</i> , 2021, 59, 6311-6326.	4.9	22
71	Detection and Diagnosis of Unknown Abrupt Changes Using CUSUM Multi-Chart Schemes. <i>Sequential Analysis</i> , 2007, 26, 225-249.	0.2	21
72	Variable EWMA run-to-run controller for drifted processes. <i>IIE Transactions</i> , 2007, 39, 291-301.	2.1	21

#	ARTICLE	IF	CITATIONS
73	An Adaptive T^2 Chart for Monitoring Dynamic Systems. Journal of Quality Technology, 2008, 40, 109-123.	1.8	21
74	Economic parameter design for ultra-fast laser micro-drilling process. International Journal of Production Research, 2019, 57, 6292-6314.	4.9	21
75	Multiple Attribute Control Charts with False Discovery Rate Control. Quality and Reliability Engineering International, 2012, 28, 857-871.	1.4	20
76	A density-based statistical process control scheme for high-dimensional and mixed-type observations. IIE Transactions, 2012, 44, 301-311.	2.1	20
77	A phase I multi-modelling approach for profile monitoring of signal data. International Journal of Production Research, 2017, 55, 4354-4377.	4.9	20
78	Shape deviation modeling for fused deposition modeling processes. , 2014, , .		19
79	A chart allocation strategy for multistage processes. IIE Transactions, 2009, 41, 790-803.	2.1	18
80	Monitoring Batch Processes with Multiple On-Off Steps in Semiconductor Manufacturing. Journal of Quality Technology, 2011, 43, 142-157.	1.8	18
81	A simple categorical chart for detecting location shifts with ordinal information. International Journal of Production Research, 2014, 52, 550-562.	4.9	18
82	Evaluating the industrial ergonomics of service quality for online recruitment websites. International Journal of Industrial Ergonomics, 2005, 35, 697-711.	1.5	17
83	Adaptive charting schemes based on double sequential probability ratio tests. Quality and Reliability Engineering International, 2009, 25, 21-39.	1.4	17
84	Monitoring censored lifetime data with a weighted-likelihood scheme. Naval Research Logistics, 2016, 63, 631-646.	1.4	17
85	A hybrid transfer learning framework for in-plane freeform shape accuracy control in additive manufacturing. IIE Transactions, 2021, 53, 298-312.	1.6	17
86	Detecting and diagnosing covariance matrix changes in multistage processes. IIE Transactions, 2011, 43, 259-274.	2.1	16
87	A control scheme for autocorrelated bivariate binomial data. Computers and Industrial Engineering, 2016, 98, 350-359.	3.4	16
88	Monitoring feedback-controlled processes using adaptive T^2 schemes. International Journal of Production Research, 2007, 45, 5601-5619.	4.9	15
89	Directional change-point detection for process control with multivariate categorical data. Naval Research Logistics, 2013, 60, 160-173.	1.4	15
90	Long-Short Term Spatiotemporal Tensor Prediction for Passenger Flow Profile. IEEE Robotics and Automation Letters, 2020, 5, 5010-5017.	3.3	15

#	ARTICLE	IF	CITATIONS
91	Smithâ€“EWMA run-to-run control schemes for a process with measurement delay. IIE Transactions, 2009, 41, 346-358.	2.1	14
92	Rank-based process control for mixed-type data. IIE Transactions, 2016, 48, 673-683.	2.1	14
93	Ordinal profile monitoring with random explanatory variables. International Journal of Production Research, 2017, 55, 736-749.	4.9	14
94	Monitoring of power consumption requirement load process and price adjustment for smart grid. Computers and Industrial Engineering, 2019, 137, 106068.	3.4	14
95	Relationships Among Control Charts Used with Feedback Control. Quality and Reliability Engineering International, 2006, 22, 877-887.	1.4	13
96	Integrated design of run-to-run PID controller and SPC monitoring for process disturbance rejection. IIE Transactions, 1999, 31, 517-527.	2.1	12
97	Improved Design of Proportional Integral Derivative Charts. Journal of Quality Technology, 2006, 38, 31-44.	1.8	12
98	Improving automatic-controlled process quality using adaptive principal component monitoring. Quality and Reliability Engineering International, 1999, 15, 135-142.	1.4	11
99	Multi-sensor based landslide monitoring via transfer learning. Journal of Quality Technology, 2021, 53, 474-487.	1.8	11
100	An adaptive dimension reduction scheme for monitoring feedbackâ€“controlled processes. Quality and Reliability Engineering International, 2009, 25, 283-298.	1.4	10
101	Recursive parameter estimation for categorical process control. International Journal of Production Research, 2010, 48, 1381-1394.	4.9	10
102	Configuration-Based Smart Customization Service: A Multitask Learning Approach. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2038-2047.	3.4	10
103	Six Sigma approach to reducing fall hazards among cargo handlers working on top of cargo containers: a case study. International Journal of Six Sigma and Competitive Advantage, 2005, 1, 188.	0.3	9
104	The Optimal Stopping Time for Detecting Changes in Discrete Time Markov Processes. Sequential Analysis, 2009, 28, 115-135.	0.2	9
105	LASSO-based diagnosis scheme for multistage processes with binary data. Computers and Industrial Engineering, 2014, 72, 198-205.	3.4	9
106	A control scheme for monitoring process covariance matrices with more variables than observations. Quality and Reliability Engineering International, 2019, 35, 351-367.	1.4	9
107	Directional PCA for Fast Detection and Accurate Diagnosis: A Unified Framework. IEEE Transactions on Cybernetics, 2022, 52, 11362-11372.	6.2	9
108	Process Capability Improvement for Multistage Processes. Quality Engineering, 2002, 15, 281-292.	0.7	8

#	ARTICLE	IF	CITATIONS
109	The dynamic T 2 chart for monitoring feedback-controlled processes. IIE Transactions, 2002, 34, 1043-1053.	2.1	8
110	Comparison of the cuscore, GLRT and cusum control charts for detecting a dynamic mean change. Annals of the Institute of Statistical Mathematics, 2005, 57, 531-552.	0.5	8
111	A robust CUSUM scheme with a weighted likelihood ratio to monitor an overdispersed counting process. Computers and Industrial Engineering, 2018, 126, 165-174.	3.4	8
112	Bayesian cross-product quality control via transfer learning. International Journal of Production Research, 2022, 60, 847-865.	4.9	8
113	Studying effects of screw-fastening process on assembly accuracy. International Journal of Advanced Manufacturing Technology, 2005, 25, 493-499.	1.5	7
114	An improved runâ€œrun process control scheme for categorical observations with misclassification errors. Quality and Reliability Engineering International, 2009, 25, 397-407.	1.4	7
115	Detection of changes in a random financial sequence with a stable distribution. Journal of Applied Statistics, 2010, 37, 1089-1111.	0.6	7
116	Hierarchical sparse functional principal component analysis for multistage multivariate profile data. IIE Transactions, 2021, 53, 58-73.	1.6	7
117	Change detection in parametric multivariate dynamic data streams using the ARMAX-GARCH model. Journal of Quality Technology, 2022, 54, 303-323.	1.8	7
118	A risk-adjusted approach to monitoring surgery for survival outcomes based on a weighted score test. Computers and Industrial Engineering, 2021, 160, 107568.	3.4	7
119	Statistical process control techniques for service processes: a review. , 2009, , .		6
120	Directional control schemes for processes with mixed-type data. International Journal of Production Research, 2016, 54, 1594-1609.	4.9	6
121	50Âyears of the <i>Journal of Quality Technology</i>. Journal of Quality Technology, 2018, 50, 2-16.	1.8	6
122	A Fast and Robust Nonparametric Monitoring Scheme for Free-Form Surface Scanning Data. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1675-1685.	3.4	6
123	Change detection of profile with jumps and its application to 3D printing. Computers and Industrial Engineering, 2020, 139, 106198.	3.4	6
124	Fault classification for highâ€dimensional data streams: A directional diagnostic framework based on multiple hypothesis testing. Naval Research Logistics, 2021, 68, 973-987.	1.4	6
125	Profile Decomposition Based Hybrid Transfer Learning for Cold-Start Data Anomaly Detection. ACM Transactions on Knowledge Discovery From Data, 2022, 16, 1-28.	2.5	6
126	Real-time monitoring and diagnosis scheme for IoT-enabled devices using multivariate SPC techniques. IIE Transactions, 2023, 55, 348-362.	1.6	6

#	ARTICLE	IF	CITATIONS
127	Statistical Process Control for Latent Quality Characteristics Using the Up-and-Down Test. <i>Technometrics</i> , 2017, 59, 496-507.	1.3	5
128	Constructing Tolerance Intervals for the Number of Defectives Using Both High- and Low-Resolution Data. <i>Journal of Quality Technology</i> , 2017, 49, 354-364.	1.8	5
129	A cost-effective and reliable measurement strategy for 3D printed parts by integrating low- and high-resolution measurement systems. <i>IIEE Transactions</i> , 2018, 50, 900-912.	1.6	5
130	A computationally efficient self-starting scheme to monitor general linear profiles with abrupt changes. <i>Quality Technology and Quantitative Management</i> , 2019, 16, 278-296.	1.1	5
131	Statistical Monitoring of Service Levels and Staffing Adjustments for Call Centers. <i>Quality and Reliability Engineering International</i> , 2016, 32, 2813-2821.	1.4	4
132	On the optimality of Bayesian change-point detection. <i>Annals of Statistics</i> , 2017, 45, .	1.4	4
133	Sparse and Robust Multivariate Functional Principal Component Analysis for Passenger Flow Pattern Discovery in Metro Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 8367-8379.	4.7	4
134	Distribution inference from early-stage stationary data streams by transfer learning. <i>IIEE Transactions</i> , 0, , 1-25.	1.6	4
135	Self-starting process monitoring based on transfer learning. <i>Journal of Quality Technology</i> , 2022, 54, 589-604.	1.8	4
136	Statistical Process Control for Multistage Manufacturing and Service Operations: A Review. , 2006, , .		3
137	A Comparative Study of Joint Monitoring Schemes for APC Processes. <i>Quality and Reliability Engineering International</i> , 2006, 22, 939-952.	1.4	3
138	Monitoring a process with mixed-type and high-dimensional data. , 2010, , .		3
139	Prediction of time-varying metrology delay for dEWMA and RLS-LT controllers. <i>Journal of Process Control</i> , 2012, 22, 823-828.	1.7	3
140	Registration-free monitoring of multimode near-circular shape profiles. <i>Quality and Reliability Engineering International</i> , 2018, 34, 529-542.	1.4	3
141	Monitoring the data quality of data streams using a two-step control scheme. <i>IIEE Transactions</i> , 2019, 51, 985-998.	1.6	3
142	Individualized passenger travel pattern multi-clustering based on graph regularized tensor latent dirichlet allocation. <i>Data Mining and Knowledge Discovery</i> , 2022, 36, 1247-1278.	2.4	3
143	Multistage process monitoring and diagnosis. , 0, , .		2
144	Detection and Diagnosis of Distribution Changes of Degree Ratio in Complex Networks. <i>Communications in Statistics - Theory and Methods</i> , 2015, 44, 1911-1938.	0.6	2

#	ARTICLE	IF	CITATIONS
145	Editor's notes on special issue on "reliability and maintenance modeling with big data" Journal of Quality Technology, 2018, 50, 133-134.	1.8	2
146	Sparse and Structured Function-on-Function Quality Predictive Modeling by Hierarchical Variable Selection and Multitask Learning. IEEE Transactions on Industrial Informatics, 2021, 17, 6720-6730.	7.2	2
147	A NOTE ON STATISTICAL MONITORING OF ENGINEERING CONTROLLED PROCESSES. International Journal of Reliability, Quality and Safety Engineering, 2001, 08, 1-14.	0.4	1
148	Monitoring Multivariate Processes Using an Adaptive T2 Chart. , 2006, , .		1
149	A false discovery approach for scanning spatial disease clusters with arbitrary shapes. IIE Transactions, 2016, 48, 684-698.	2.1	1
150	Adaptive monitoring of multimodal data. Computers and Industrial Engineering, 2018, 125, 364-374.	3.4	1
151	Stability conditions and robustness analysis of a general MMSE run-to-run controller. IIE Transactions, 2019, 51, 1279-1287.	1.6	1
152	Discussion of "A novel approach to the analysis of spatial and functional data over complex domains" Quality Engineering, 2020, 32, 193-196.	0.7	1
153	Six Sigma. , 2006, , 957-972.		1
154	Nonparametric Passenger Flow Monitoring using A Minimum Distance Criterion. IIE Transactions, 0, , 1-24.	1.6	1
155	Impact of information sharing on statistical quality control. , 0, , .		0
156	Quality, Statistics, and Reliability Cluster at INFORMS 2003. Quality and Reliability Engineering International, 2005, 21, iii-iv.	1.4	0
157	Bayesian fault identification of multistage processes. , 2009, , .		0
158	Editorial-INFORMS 2009 annual meeting. Quality and Reliability Engineering International, 2010, 26, 643-644.	1.4	0
159	Editor's notes on Special Issue on "Statistical Process Control for Big Data Streams" Journal of Quality Technology, 2018, 50, 327-328.	1.8	0
160	Editors'™ note for special issue: "Quality engineering in advanced manufacturing" Journal of Quality Technology, 2018, 50, 231-232.	1.8	0
161	Statistical Process Control for Multistage Manufacturing and Service Operations: A Review. , 2006, , .		0