

Fugee Tsung

List of Publications by Year in descending order

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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	Real-time monitoring and diagnosis scheme for IoT-enabled devices using multivariate SPC techniques. IISE Transactions, 2023, 55, 348-362.	1.6	6
2	Bayesian cross-product quality control via transfer learning. International Journal of Production Research, 2022, 60, 847-865.	4.9	8
3	Sparse and Robust Multivariate Functional Principal Component Analysis for Passenger Flow Pattern Discovery in Metro Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8367-8379.	4.7	4
4	Change detection in parametric multivariate dynamic data streams using the ARMAX-GARCH model. Journal of Quality Technology, 2022, 54, 303-323.	1.8	7
5	Directional PCA for Fast Detection and Accurate Diagnosis: A Unified Framework. IEEE Transactions on Cybernetics, 2022, 52, 11362-11372.	6.2	9
6	Self-starting process monitoring based on transfer learning. Journal of Quality Technology, 2022, 54, 589-604.	1.8	4
7	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
8	Individualized passenger travel pattern multi-clustering based on graph regularized tensor latent dirichlet allocation. Data Mining and Knowledge Discovery, 2022, 36, 1247-1278.	2.4	3
9	Nonparametric monitoring of multivariate data via KNN learning. International Journal of Production Research, 2021, 59, 6311-6326.	4.9	22
10	A hybrid transfer learning framework for in-plane freeform shape accuracy control in additive manufacturing. IISE Transactions, 2021, 53, 298-312.	1.6	17
11	Hierarchical sparse functional principal component analysis for multistage multivariate profile data. IISE Transactions, 2021, 53, 58-73.	1.6	7
12	Fault classification for high-dimensional data streams: A directional diagnostic framework based on multiple hypothesis testing. Naval Research Logistics, 2021, 68, 973-987.	1.4	6
13	Multi-sensor based landslide monitoring via transfer learning. Journal of Quality Technology, 2021, 53, 474-487.	1.8	11
14	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
15	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
16	A Diagnostic Procedure for High-Dimensional Data Streams via Missed Discovery Rate Control. Technometrics, 2020, 62, 84-100.	1.3	24
17	Change detection of profile with jumps and its application to 3D printing. Computers and Industrial Engineering, 2020, 139, 106198.	3.4	6
18	Long-Short Term Spatiotemporal Tensor Prediction for Passenger Flow Profile. IEEE Robotics and Automation Letters, 2020, 5, 5010-5017.	3.3	15

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19	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
20	Configuration-Based Smart Customization Service: A Multitask Learning Approach. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2038-2047.	3.4	10
21	Real-time quality monitoring and diagnosis for manufacturing process profiles based on deep belief networks. Computers and Industrial Engineering, 2019, 136, 494-503.	3.4	25
22	Monitoring of power consumption requirement load process and price adjustment for smart grid. Computers and Industrial Engineering, 2019, 137, 106068.	3.4	14
23	Economic parameter design for ultra-fast laser micro-drilling process. International Journal of Production Research, 2019, 57, 6292-6314.	4.9	21
24	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
25	Stability conditions and robustness analysis of a general MMSE run-to-run controller. IIE Transactions, 2019, 51, 1279-1287.	1.6	1
26	The internet of things for smart manufacturing: A review. IIE Transactions, 2019, 51, 1190-1216.	1.6	243
27	Monitoring the data quality of data streams using a two-step control scheme. IIE Transactions, 2019, 51, 985-998.	1.6	3
28	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
29	A computationally efficient self-starting scheme to monitor general linear profiles with abrupt changes. Quality Technology and Quantitative Management, 2019, 16, 278-296.	1.1	5
30	An improved approach for failure mode and effect analysis involving large group of experts: An application to the healthcare field. Quality Engineering, 2018, 30, 762-775.	0.7	82
31	A cost-effective and reliable measurement strategy for 3D printed parts by integrating low- and high-resolution measurement systems. IIE Transactions, 2018, 50, 900-912.	1.6	5
32	Online profile monitoring for surgical outcomes using a weighted score test. Journal of Quality Technology, 2018, 50, 88-97.	1.8	30
33	50 Years of the Journal of Quality Technology. Journal of Quality Technology, 2018, 50, 2-16.	1.8	6
34	Registration-free monitoring of multimode near-circular shape profiles. Quality and Reliability Engineering International, 2018, 34, 529-542.	1.4	3
35	Statistical transfer learning: A review and some extensions to statistical process control. Quality Engineering, 2018, 30, 115-128.	0.7	48
36	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

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37	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
38	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
39	A spatial-adaptive sampling procedure for online monitoring of big data streams. Journal of Quality Technology, 2018, 50, 329-343.	1.8	32
40	Opportunities and challenges of quality engineering for additive manufacturing. Journal of Quality Technology, 2018, 50, 233-252.	1.8	89
41	Editors' note for special issue: "Quality engineering in advanced manufacturing", Journal of Quality Technology, 2018, 50, 231-232.	1.8	0
42	Adaptive monitoring of multimodal data. Computers and Industrial Engineering, 2018, 125, 364-374.	3.4	1
43	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
44	In-Plane Shape-Deviation Modeling and Compensation for Fused Deposition Modeling Processes. IEEE Transactions on Automation Science and Engineering, 2017, 14, 968-976.	3.4	54
45	Statistical Process Control for Latent Quality Characteristics Using the Up-and-Down Test. Technometrics, 2017, 59, 496-507.	1.3	5
46	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
47	A Statistical Transfer Learning Perspective for Modeling Shape Deviations in Additive Manufacturing. IEEE Robotics and Automation Letters, 2017, 2, 1988-1993.	3.3	40
48	On the optimality of Bayesian change-point detection. Annals of Statistics, 2017, 45, .	1.4	4
49	A phase I multi-modelling approach for profile monitoring of signal data. International Journal of Production Research, 2017, 55, 4354-4377.	4.9	20
50	Ordinal profile monitoring with random explanatory variables. International Journal of Production Research, 2017, 55, 736-749.	4.9	14
51	Constructing Tolerance Intervals for the Number of Defectives Using Both High- and Low-Resolution Data. Journal of Quality Technology, 2017, 49, 354-364.	1.8	5
52	Statistical Monitoring of Service Levels and Staffing Adjustments for Call Centers. Quality and Reliability Engineering International, 2016, 32, 2813-2821.	1.4	4
53	Monitoring censored lifetime data with a weighted-likelihood scheme. Naval Research Logistics, 2016, 63, 631-646.	1.4	17
54	A false discovery approach for scanning spatial disease clusters with arbitrary shapes. IIE Transactions, 2016, 48, 684-698.	2.1	1

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55	A control scheme for autocorrelated bivariate binomial data. Computers and Industrial Engineering, 2016, 98, 350-359.	3.4	16
56	Directional control schemes for processes with mixed-type data. International Journal of Production Research, 2016, 54, 1594-1609.	4.9	6
57	Rank-based process control for mixed-type data. IIE Transactions, 2016, 48, 673-683.	2.1	14
58	Detection and Diagnosis of Distribution Changes of Degree Ratio in Complex Networks. Communications in Statistics - Theory and Methods, 2015, 44, 1911-1938.	0.6	2
59	A general framework for monitoring complex processes with both in-control and out-of-control information. Computers and Industrial Engineering, 2015, 85, 157-168.	3.4	30
60	Shape deviation modeling for fused deposition modeling processes. , 2014, , .		19
61	A new multivariate EWMA scheme for monitoring covariance matrices. International Journal of Production Research, 2014, 52, 2834-2850.	4.9	35
62	Adaptive nonparametric CUSUM scheme for detecting unknown shifts in location. International Journal of Production Research, 2014, 52, 1592-1606.	4.9	43
63	A simple categorical chart for detecting location shifts with ordinal information. International Journal of Production Research, 2014, 52, 550-562.	4.9	18
64	Multivariate binomial/multinomial control chart. IIE Transactions, 2014, 46, 526-542.	2.1	43
65	LASSO-based diagnosis scheme for multistage processes with binary data. Computers and Industrial Engineering, 2014, 72, 198-205.	3.4	9
66	Statistical Surface Monitoring by Spatial-Structure Modeling. Journal of Quality Technology, 2014, 46, 359-376.	1.8	45
67	Directional changeâ€point detection for process control with multivariate categorical data. Naval Research Logistics, 2013, 60, 160-173.	1.4	15
68	Improved design of kernel distanceâ€based charts using support vector methods. IIE Transactions, 2013, 45, 464-476.	2.1	38
69	Statistical process control for multistage processes with binary outputs. IIE Transactions, 2013, 45, 1008-1023.	2.1	35
70	Monitoring poisson count data with probability control limits when sample sizes are time varying. Naval Research Logistics, 2013, 60, 625-636.	1.4	61
71	Directional Control Schemes for Multivariate Categorical Processes. Journal of Quality Technology, 2012, 44, 136-154.	1.8	41
72	A Variable-Selection-Based Multivariate EWMA Chart for Process Monitoring and Diagnosis. Journal of Quality Technology, 2012, 44, 209-230.	1.8	77

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73	A distribution-free robust method for monitoring linear profiles using rank-based regression. IIE Transactions, 2012, 44, 949-963.	2.1	23
74	Multiple Attribute Control Charts with False Discovery Rate Control. Quality and Reliability Engineering International, 2012, 28, 857-871.	1.4	20
75	A density-based statistical process control scheme for high-dimensional and mixed-type observations. IIE Transactions, 2012, 44, 301-311.	2.1	20
76	A comparison study of effectiveness and robustness of control charts for monitoring process mean. International Journal of Production Economics, 2012, 135, 479-490.	5.1	100
77	Prediction of time-varying metrology delay for dEWMA and RLS-LT controllers. Journal of Process Control, 2012, 22, 823-828.	1.7	3
78	A spatial rank-based multivariate EWMA control chart. Naval Research Logistics, 2012, 59, 91-110.	1.4	76
79	LASSO-based multivariate linear profile monitoring. Annals of Operations Research, 2012, 192, 3-19.	2.6	89
80	A Multivariate Sign EWMA Control Chart. Technometrics, 2011, 53, 84-97.	1.3	140
81	Detecting and diagnosing covariance matrix changes in multistage processes. IIE Transactions, 2011, 43, 259-274.	2.1	16
82	Monitoring Batch Processes with Multiple On-Off Steps in Semiconductor Manufacturing. Journal of Quality Technology, 2011, 43, 142-157.	1.8	18
83	Profile Monitoring with Binary Data and Random Predictors. Journal of Quality Technology, 2011, 43, 196-208.	1.8	61
84	A LASSO-Based Diagnostic Framework for Multivariate Statistical Process Control. Technometrics, 2011, 53, 297-309.	1.3	92
85	Likelihood Ratio-Based Distribution-Free EWMA Control Charts. Journal of Quality Technology, 2010, 42, 174-196.	1.8	121
86	Editorial-INFORMS 2009 annual meeting. Quality and Reliability Engineering International, 2010, 26, 643-644.	1.4	0
87	Chart allocation strategy for serial-parallel multistage manufacturing processes. IIE Transactions, 2010, 42, 577-588.	2.1	28
88	Recursive parameter estimation for categorical process control. International Journal of Production Research, 2010, 48, 1381-1394.	4.9	10
89	Detection of changes in a random financial sequence with a stable distribution. Journal of Applied Statistics, 2010, 37, 1089-1111.	0.6	7
90	Monitoring a process with mixed-type and high-dimensional data. , 2010, , .		3

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91	A chart allocation strategy for multistage processes. IIE Transactions, 2009, 41, 790-803.	2.1	18
92	One-class classification-based control charts for multivariate process monitoring. IIE Transactions, 2009, 42, 107-120.	2.1	102
93	Bayesian fault identification of multistage processes. , 2009, , .		0
94	Tolerance Intervals With Improved Coverage Probabilities for Binomial and Poisson Variables. Technometrics, 2009, 51, 25-33.	1.3	29
95	Statistical process control techniques for service processes: a review. , 2009, , .		6
96	The Optimal Stopping Time for Detecting Changes in Discrete Time Markov Processes. Sequential Analysis, 2009, 28, 115-135.	0.2	9
97	Smith's EWMA run-to-run control schemes for a process with measurement delay. IIE Transactions, 2009, 41, 346-358.	2.1	14
98	Adaptive charting schemes based on double sequential probability ratio tests. Quality and Reliability Engineering International, 2009, 25, 21-39.	1.4	17
99	An adaptive dimension reduction scheme for monitoring feedback-controlled processes. Quality and Reliability Engineering International, 2009, 25, 283-298.	1.4	10
100	An improved run-to-run process control scheme for categorical observations with misclassification errors. Quality and Reliability Engineering International, 2009, 25, 397-407.	1.4	7
101	False Discovery Rate-Adjusted Charting Schemes for Multistage Process Monitoring and Fault Identification. Technometrics, 2009, 51, 186-205.	1.3	61
102	Monitoring autocorrelated processes using variable sampling schemes at fixed-times. Quality and Reliability Engineering International, 2008, 24, 55-69.	1.4	30
103	Monitoring Profiles Based on Nonparametric Regression Methods. Technometrics, 2008, 50, 512-526.	1.3	133
104	Statistical monitoring of multi-stage processes based on engineering models. IIE Transactions, 2008, 40, 957-970.	2.1	63
105	Statistical process control for multistage manufacturing and service operations: a review and some extensions. International Journal of Services Operations and Informatics, 2008, 3, 191.	0.2	77
106	A Change Point Approach for Phase I Analysis in Multistage Processes. Technometrics, 2008, 50, 344-356.	1.3	38
107	An Adaptive T^2 Chart for Monitoring Dynamic Systems. Journal of Quality Technology, 2008, 40, 109-123.	1.8	21
108	Directional MEWMA Schemes for Multistage Process Monitoring and Diagnosis. Journal of Quality Technology, 2008, 40, 407-427.	1.8	65

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109	Monitoring feedback-controlled processes using adaptive ² schemes. International Journal of Production Research, 2007, 45, 5601-5619.	4.9	15
110	Detection and Diagnosis of Unknown Abrupt Changes Using CUSUM Multi-Chart Schemes. Sequential Analysis, 2007, 26, 225-249.	0.2	21
111	Applying manufacturing batch techniques to fraud detection with incomplete customer information. IIE Transactions, 2007, 39, 671-680.	2.1	22
112	Pushing Quality Improvement Along Supply Chains. Management Science, 2007, 53, 421-436.	2.4	209
113	A Self-Starting Control Chart for Linear Profiles. Journal of Quality Technology, 2007, 39, 364-375.	1.8	93
114	Variable EWMA run-to-run controller for drifted processes. IIE Transactions, 2007, 39, 291-301.	2.1	21
115	Monitoring General Linear Profiles Using Multivariate Exponentially Weighted Moving Average Schemes. Technometrics, 2007, 49, 395-408.	1.3	246
116	Run-to-Run Process Adjustment Using Categorical Observations. Journal of Quality Technology, 2007, 39, 312-325.	1.8	31
117	Evolving kernel principal component analysis for fault diagnosis. Computers and Industrial Engineering, 2007, 53, 361-371.	3.4	37
118	Statistical Process Control for Multistage Manufacturing and Service Operations: A Review. , 2006, , .		3
119	Improved Design of Proportional Integral Derivative Charts. Journal of Quality Technology, 2006, 38, 31-44.	1.8	12
120	Relationships Among Control Charts Used with Feedback Control. Quality and Reliability Engineering International, 2006, 22, 877-887.	1.4	13
121	A Comparative Study of Joint Monitoring Schemes for APC Processes. Quality and Reliability Engineering International, 2006, 22, 939-952.	1.4	3
122	A Reference-Free Cuscore Chart for Dynamic Mean Change Detection and a Unified Framework for Charting Performance Comparison. Journal of the American Statistical Association, 2006, 101, 368-386.	1.8	145
123	Monitoring Multivariate Processes Using an Adaptive T2 Chart. , 2006, , .		1
124	Supplier Selection Based on Process Capability and Price Analysis. Quality Engineering, 2006, 18, 123-129.	0.7	37
125	Six Sigma. , 2006, , 957-972.		1
126	Statistical Process Control for Multistage Manufacturing and Service Operations: A Review. , 2006, , .		0

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127	Six Sigma approach to reducing fall hazards among cargo handlers working on top of cargo containers: a case study. <i>International Journal of Six Sigma and Competitive Advantage</i> , 2005, 1, 188.	0.3	9
128	Evaluating the industrial ergonomics of service quality for online recruitment websites. <i>International Journal of Industrial Ergonomics</i> , 2005, 35, 697-711.	1.5	17
129	Studying effects of screw-fastening process on assembly accuracy. <i>International Journal of Advanced Manufacturing Technology</i> , 2005, 25, 493-499.	1.5	7
130	Comparison of the cuscore, GLRT and cusum control charts for detecting a dynamic mean change. <i>Annals of the Institute of Statistical Mathematics</i> , 2005, 57, 531-552.	0.5	8
131	Autocorrelated SPC for Non-Normal Situations. <i>Quality and Reliability Engineering International</i> , 2005, 21, 131-161.	1.4	33
132	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
133	Quality, Statistics, and Reliability Cluster at INFORMS 2003. <i>Quality and Reliability Engineering International</i> , 2005, 21, iii-iv.	1.4	0
134	Dual CUSUM control schemes for detecting a range of mean shifts. <i>IIE Transactions</i> , 2005, 37, 1047-1057.	2.1	105
135	Effects of estimation errors on cause-selecting charts. <i>IIE Transactions</i> , 2005, 37, 559-567.	2.1	43
136	Run-Length Performance of Regression Control Charts with Estimated Parameters. <i>Journal of Quality Technology</i> , 2004, 36, 280-292.	1.8	50
137	Design of Multiple Cause-Selecting Charts for Multistage Processes with Model Uncertainty. <i>Quality Engineering</i> , 2004, 16, 437-450.	0.7	37
138	A DMAIC approach to printed circuit board quality improvement. <i>International Journal of Advanced Manufacturing Technology</i> , 2004, 23, 523-531.	1.5	75
139	A generalized EWMA control chart and its comparison with the optimal EWMA, CUSUM and GLR schemes. <i>Annals of Statistics</i> , 2004, 32, 316.	1.4	36
140	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
141	ON MULTISTAGE STATISTICAL PROCESS CONTROL. <i>Journal of the Chinese Institute of Industrial Engineers</i> , 2003, 20, 1-8.	0.5	28
142	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
143	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
144	Proportional Integral Derivative Charts for Process Monitoring. <i>Technometrics</i> , 2002, 44, 205-214.	1.3	35

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145	Process Capability Improvement for Multistage Processes. Quality Engineering, 2002, 15, 281-292.	0.7	8
146	The dynamic T ² chart for monitoring feedback-controlled processes. IIE Transactions, 2002, 34, 1043-1053.	2.1	37
147	The Autoregressive T ² Chart for Monitoring Univariate Autocorrelated Processes. Journal of Quality Technology, 2002, 34, 80-96.	1.8	105
148	The dynamic T ² chart for monitoring feedback-controlled processes. IIE Transactions, 2002, 34, 1043-1053.	2.1	8
149	Autocorrelated process monitoring using triggered cuscore charts. Quality and Reliability Engineering International, 2002, 18, 411-421.	1.4	48
150	A NOTE ON STATISTICAL MONITORING OF ENGINEERING CONTROLLED PROCESSES. International Journal of Reliability, Quality and Safety Engineering, 2001, 08, 1-14.	0.4	1
151	Impact of information sharing on statistical quality control. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2000, 30, 211-216.	3.4	22
152	Joint Monitoring of PID-Controlled Processes. Journal of Quality Technology, 1999, 31, 275-285.	1.8	64
153	Integrated design of run-to-run PID controller and SPC monitoring for process disturbance rejection. IIE Transactions, 1999, 31, 517-527.	2.1	12
154	Improving automatic-controlled process quality using adaptive principal component monitoring. Quality and Reliability Engineering International, 1999, 15, 135-142.	1.4	11
155	Integrated design of run-to-run PID controller and SPC monitoring for process disturbance rejection. IIE Transactions, 1999, 31, 517-527.	2.1	45
156	On the Efficiency and Robustness of Discrete Proportional-Integral Control Schemes. Technometrics, 1998, 40, 214-222.	1.3	46
157	Impact of information sharing on statistical quality control. , 0, , .		0
158	Multistage process monitoring and diagnosis. , 0, , .		2
159	Distribution inference from early-stage stationary data streams by transfer learning. IIE Transactions, 0, , 1-25.	1.6	4
160	On the Efficiency and Robustness of Discrete Proportional-Integral Control Schemes. , 0, , .		28
161	Nonparametric Passenger Flow Monitoring using A Minimum Distance Criterion. IIE Transactions, 0, , 1-24.	1.6	1