Fadel M Megahed

List of Publications by Year
in descending order

56	1,734	331670	302126
papers	citations	21	39
		h-index	g-index

57	57	57	1332
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Predicting short-term stock prices using ensemble methods and online data sources. Expert Systems With Applications, 2018, 112, 258-273.	7.6	162
2	A data-driven approach to modeling physical fatigue in the workplace using wearable sensors. Applied Ergonomics, 2017, 65, 515-529.	3.1	151
3	Stock market one-day ahead movement prediction using disparate data sources. Expert Systems With Applications, 2017, 79, 153-163.	7.6	137
4	A Review and Perspective on Control Charting with Image Data. Journal of Quality Technology, 2011, 43, 83-98.	2.5	113
5	Exponential CUSUM Charts with Estimated Control Limits. Quality and Reliability Engineering International, 2014, 30, 275-286.	2.3	96
6	A Spatiotemporal Method for the Monitoring of Image Data. Quality and Reliability Engineering International, 2012, 28, 967-980.	2.3	81
7	Predicting heart transplantation outcomes through data analytics. Decision Support Systems, 2017, 94, 42-52.	5.9	79
8	Geometric Charts with Estimated Control Limits. Quality and Reliability Engineering International, 2013, 29, 209-223.	2.3	76
9	A machine learning approach to detect changes in gait parameters following a fatiguing occupational task. Ergonomics, 2018, 61, 1116-1129.	2.1	64
10	Statistical Learning Methods Applied to Process Monitoring: An Overview and Perspective. Journal of Quality Technology, 2016, 48, 4-24.	2.5	60
11	A probabilistic data-driven framework for scoring the preoperative recipient-donor heart transplant survival. Decision Support Systems, 2016, 86, 1-12.	5.9	60
12	A data analytic framework for physical fatigue management using wearable sensors. Expert Systems With Applications, 2020, 155, 113405.	7.6	58
13	Real-time fault detection in manufacturing environments using face recognition techniques. Journal of Intelligent Manufacturing, 2012, 23, 393-408.	7.3	46
14	Statistical process monitoring approach for high-density point clouds. Journal of Intelligent Manufacturing, 2013, 24, 1267-1279.	7.3	44
15	Monitoring worker fatigue using wearable devices: A case study to detect changes in gait parameters. Journal of Quality Technology, 2021, 53, 47-71.	2.5	40
16	An image-based multivariate generalized likelihood ratio control chart for detecting and diagnosing multiple faults in manufactured products. International Journal of Production Research, 2016, 54, 1771-1784.	7.5	38
17	A survey of the prevalence of fatigue, its precursors and individual coping mechanisms among U.S. manufacturing workers. Applied Ergonomics, 2017, 65, 139-151.	3.1	35
18	Statistical Perspectives on "Big Data", 2015, , 29-47.		33

#	Article	IF	Citations
19	The class imbalance problem. Nature Methods, 2021, 18, 1270-1272.	19.0	33
20	Macroeconomic indicators alone can predict the monthly closing price of major U.S. indices: Insights from artificial intelligence, time-series analysis and hybrid models. Applied Soft Computing Journal, 2018, 71, 685-697.	7.2	29
21	A forecasting framework for predicting perceived fatigue: Using time series methods to forecast ratings of perceived exertion with features from wearable sensors. Applied Ergonomics, 2021, 90, 103262.	3.1	29
22	A Review of Data Analytic Applications in Road Traffic Safety. Part 1: Descriptive and Predictive Modeling. Sensors, 2020, 20, 1107.	3.8	28
23	Statistical process monitoring via image data using wavelets. Quality and Reliability Engineering International, 2017, 33, 2059-2073.	2.3	24
24	A framework for variation visualization and understanding in complex manufacturing systems. Journal of Intelligent Manufacturing, 2012, 23, 2025-2036.	7.3	20
25	A Note on the ARL of Two-Sided Bernoulli-Based CUSUM Control Charts. Journal of Quality Technology, 2011, 43, 43-49.	2.5	15
26	A two-stage machine learning framework to predict heart transplantation survival probabilities over time with a monotonic probability constraint. Decision Support Systems, 2020, 137, 113363.	5.9	15
27	A Review of Data Analytic Applications in Road Traffic Safety. Part 2: Prescriptive Modeling. Sensors, 2020, 20, 1096.	3.8	13
28	The association between crashes and safety-critical events: Synthesized evidence from crash reports and naturalistic driving data among commercial truck drivers. Transportation Research Part C: Emerging Technologies, 2021, 126, 103016.	7.6	13
29	Predicting unsafe driving risk among commercial truck drivers using machine learning: Lessons learned from the surveillance of 20 million driving miles. Accident Analysis and Prevention, 2021, 159, 106285.	5.7	12
30	Enhancing the monitoring of 3D scanned manufactured parts through projections and spatiotemporal control charts. Journal of Intelligent Manufacturing, 2017, 28, 899-911.	7.3	11
31	Interventions to Mitigate Fatigue Induced by Physical Work: A Systematic Review of Research Quality and Levels of Evidence for Intervention Efficacy. Human Factors, 2021, 63, 151-191.	3.5	10
32	Seat Assignments With Physical Distancing in Single-Destination Public Transit Settings. IEEE Access, 2021, 9, 42985-42993.	4.2	10
33	Proportional Hazard Model of doped low creep lead free solder paste under thermal shock. , 2016, , .		9
34	Personalized and Nonparametric Framework for Detecting Changes in Gait Cycles. IEEE Sensors Journal, 2021, 21, 19236-19246.	4.7	9
35	Empowering the Workforce in Post–COVID-19 Smart Manufacturing Systems. Smart and Sustainable Manufacturing Systems, 2020, 4, 20200043.	0.7	9
36	A data analytic end-to-end framework for the automated quantification of ergonomic risk factors across multiple tasks using a single wearable sensor. Applied Ergonomics, 2022, 102, 103732.	3.1	9

#	Article	IF	Citations
37	Proportional Hazard Model of doped low creep lead free solder paste under vibration. , 2016, , .		7
38	The Use of 3D Laser Scanners in Statistical Process Control. , 0, , .		6
39	Optimization of Split Keyboard Design for Touchscreen Devices. International Journal of Human-Computer Interaction, 2019, 35, 468-477.	4.8	5
40	Variations of length of stay: a case study using control charts in the CRISP-DM framework. International Journal of Six Sigma and Competitive Advantage, 2019, 11, 204.	0.4	5
41	Challenges and Opportunities for Statistical Monitoring of Gait Cycle Acceleration Observed from IMU Data for Fatigue Detection. , 2020, , .		5
42	Using Visual Data Mining to Enhance the Simple Tools in Statistical Process Control: A Case Study. Quality and Reliability Engineering International, 2014, 30, 905-917.	2.3	4
43	Discussion on â€œReal-time monitoring of events applied to syndromic surveillanceâ€. Quality Engineering, 2019, 31, 97-104.	1.1	4
44	HistoRIA: A new tool for simulation input analysis. , 2014, , .		3
45	Effects of Task Type, Task Duration, and Age on Body Kinematics and Subjective Fatigue. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 1040-1040.	0.3	3
46	Streamlining science with structured data archives: insights from stroke rehabilitation. Scientometrics, 2017, 113, 969-983.	3.0	3
47	Investigation of Heterogeneity Sources for Occupational Task Recognition via Transfer Learning. Sensors, 2021, 21, 6677.	3.8	3
48	Modeling the differences in the time-series profiles of new COVID-19 daily confirmed cases in 3,108 contiguous U.S. counties: A retrospective analysis. PLoS ONE, 2021, 16, e0242896.	2.5	3
49	Hierarchical point process models for recurring safety critical events involving commercial truck drivers: A reliability framework for human performance modeling. Journal of Quality Technology, 2022, 54, 466-484.	2.5	2
50	Using visual data mining in highway traffic safety analysis and decision making. Journal of Transportation Management, 2015, 26, 43-60.	0.2	2
51	Explaining Predictive Model Performance: An Experimental Study of Data Preparation and Model Choice. Big Data, 2023, 11, 199-214.	3.4	2
52	A short note on the effect of sample size on the estimation error in Cp. Quality Engineering, 2016, 28, 455-466.	1.1	1
53	Monitoring and Change Point Estimation of Normal (In-Control) and Fatigued (Out-of-Control) State in Workers. , 2016, , .		1
54	Smart Wearable and Collaborative Technologies for the Operator 4.0 in the Present and Post-COVID Digital Manufacturing Worlds. Smart and Sustainable Manufacturing Systems, 2021, 5, 148-166.	0.7	1

#	ARTICLE	IF	CITATIONS
55	A Statistical (Process Monitoring) Perspective on Human Performance Modeling in the Age of Cyber-Physical Systems. , 2021, , 197-228.		0
56	Explaining the Varying Patterns of COVID-19 Deaths Across the United States: 2-Stage Time Series Clustering Framework. JMIR Public Health and Surveillance, 2022, 8, e32164.	2.6	0