

# Fadel M Megahed

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,734  
citations

331670

21  
h-index

302126

39  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1332  
citing authors

#	ARTICLE	IF	CITATIONS
1	Explaining Predictive Model Performance: An Experimental Study of Data Preparation and Model Choice. <i>Big Data</i> , 2023, 11, 199-214.	3.4	2
2	Hierarchical point process models for recurring safety critical events involving commercial truck drivers: A reliability framework for human performance modeling. <i>Journal of Quality Technology</i> , 2022, 54, 466-484.	2.5	2
3	A data analytic end-to-end framework for the automated quantification of ergonomic risk factors across multiple tasks using a single wearable sensor. <i>Applied Ergonomics</i> , 2022, 102, 103732.	3.1	9
4	Explaining the Varying Patterns of COVID-19 Deaths Across the United States: 2-Stage Time Series Clustering Framework. <i>JMIR Public Health and Surveillance</i> , 2022, 8, e32164.	2.6	0
5	A forecasting framework for predicting perceived fatigue: Using time series methods to forecast ratings of perceived exertion with features from wearable sensors. <i>Applied Ergonomics</i> , 2021, 90, 103262.	3.1	29
6	Monitoring worker fatigue using wearable devices: A case study to detect changes in gait parameters. <i>Journal of Quality Technology</i> , 2021, 53, 47-71.	2.5	40
7	Interventions to Mitigate Fatigue Induced by Physical Work: A Systematic Review of Research Quality and Levels of Evidence for Intervention Efficacy. <i>Human Factors</i> , 2021, 63, 151-191.	3.5	10
8	Seat Assignments With Physical Distancing in Single-Destination Public Transit Settings. <i>IEEE Access</i> , 2021, 9, 42985-42993.	4.2	10
9	A Statistical (Process Monitoring) Perspective on Human Performance Modeling in the Age of Cyber-Physical Systems. , 2021, , 197-228.		0
10	The association between crashes and safety-critical events: Synthesized evidence from crash reports and naturalistic driving data among commercial truck drivers. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 126, 103016.	7.6	13
11	Smart Wearable and Collaborative Technologies for the Operator 4.0 in the Present and Post-COVID Digital Manufacturing Worlds. <i>Smart and Sustainable Manufacturing Systems</i> , 2021, 5, 148-166.	0.7	1
12	Predicting unsafe driving risk among commercial truck drivers using machine learning: Lessons learned from the surveillance of 20 million driving miles. <i>Accident Analysis and Prevention</i> , 2021, 159, 106285.	5.7	12
13	Personalized and Nonparametric Framework for Detecting Changes in Gait Cycles. <i>IEEE Sensors Journal</i> , 2021, 21, 19236-19246.	4.7	9
14	Investigation of Heterogeneity Sources for Occupational Task Recognition via Transfer Learning. <i>Sensors</i> , 2021, 21, 6677.	3.8	3
15	The class imbalance problem. <i>Nature Methods</i> , 2021, 18, 1270-1272.	19.0	33
16	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. <i>PLoS ONE</i> , 2021, 16, e0242896.	2.5	3
17	A two-stage machine learning framework to predict heart transplantation survival probabilities over time with a monotonic probability constraint. <i>Decision Support Systems</i> , 2020, 137, 113363.	5.9	15
18	Challenges and Opportunities for Statistical Monitoring of Gait Cycle Acceleration Observed from IMU Data for Fatigue Detection. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
19	A data analytic framework for physical fatigue management using wearable sensors. Expert Systems With Applications, 2020, 155, 113405.	7.6	58
20	A Review of Data Analytic Applications in Road Traffic Safety. Part 1: Descriptive and Predictive Modeling. Sensors, 2020, 20, 1107.	3.8	28
21	A Review of Data Analytic Applications in Road Traffic Safety. Part 2: Prescriptive Modeling. Sensors, 2020, 20, 1096.	3.8	13
22	Empowering the Workforce in Post-“COVID-19 Smart Manufacturing Systems. Smart and Sustainable Manufacturing Systems, 2020, 4, 20200043.	0.7	9
23	Optimization of Split Keyboard Design for Touchscreen Devices. International Journal of Human-Computer Interaction, 2019, 35, 468-477.	4.8	5
24	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
25	Discussion on “Real-time monitoring of events applied to syndromic surveillance”. Quality Engineering, 2019, 31, 97-104.	1.1	4
26	A machine learning approach to detect changes in gait parameters following a fatiguing occupational task. Ergonomics, 2018, 61, 1116-1129.	2.1	64
27	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
28	Predicting short-term stock prices using ensemble methods and online data sources. Expert Systems With Applications, 2018, 112, 258-273.	7.6	162
29	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
30	Stock market one-day ahead movement prediction using disparate data sources. Expert Systems With Applications, 2017, 79, 153-163.	7.6	137
31	A data-driven approach to modeling physical fatigue in the workplace using wearable sensors. Applied Ergonomics, 2017, 65, 515-529.	3.1	151
32	Statistical process monitoring via image data using wavelets. Quality and Reliability Engineering International, 2017, 33, 2059-2073.	2.3	24
33	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
34	Predicting heart transplantation outcomes through data analytics. Decision Support Systems, 2017, 94, 42-52.	5.9	79
35	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
36	Streamlining science with structured data archives: insights from stroke rehabilitation. Scientometrics, 2017, 113, 969-983.	3.0	3

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37	Proportional Hazard Model of doped low creep lead free solder paste under thermal shock. , 2016, , .		9
38	A short note on the effect of sample size on the estimation error in Cp. Quality Engineering, 2016, 28, 455-466.	1.1	1
39	Proportional Hazard Model of doped low creep lead free solder paste under vibration. , 2016, , .		7
40	Statistical Learning Methods Applied to Process Monitoring: An Overview and Perspective. Journal of Quality Technology, 2016, 48, 4-24.	2.5	60
41	Monitoring and Change Point Estimation of Normal (In-Control) and Fatigued (Out-of-Control) State in Workers. , 2016, , .		1
42	A probabilistic data-driven framework for scoring the preoperative recipient-donor heart transplant survival. Decision Support Systems, 2016, 86, 1-12.	5.9	60
43	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
44	Statistical Perspectives on "Big Data" , 2015, , 29-47.		33
45	Using visual data mining in highway traffic safety analysis and decision making. Journal of Transportation Management, 2015, 26, 43-60.	0.2	2
46	HistoRIA: A new tool for simulation input analysis. , 2014, , .		3
47	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
48	Exponential CUSUM Charts with Estimated Control Limits. Quality and Reliability Engineering International, 2014, 30, 275-286.	2.3	96
49	Statistical process monitoring approach for high-density point clouds. Journal of Intelligent Manufacturing, 2013, 24, 1267-1279.	7.3	44
50	Geometric Charts with Estimated Control Limits. Quality and Reliability Engineering International, 2013, 29, 209-223.	2.3	76
51	A framework for variation visualization and understanding in complex manufacturing systems. Journal of Intelligent Manufacturing, 2012, 23, 2025-2036.	7.3	20
52	A Spatiotemporal Method for the Monitoring of Image Data. Quality and Reliability Engineering International, 2012, 28, 967-980.	2.3	81
53	Real-time fault detection in manufacturing environments using face recognition techniques. Journal of Intelligent Manufacturing, 2012, 23, 393-408.	7.3	46
54	A Review and Perspective on Control Charting with Image Data. Journal of Quality Technology, 2011, 43, 83-98.	2.5	113

#	ARTICLE	IF	CITATIONS
55	A Note on the ARL of Two-Sided Bernoulli-Based CUSUM Control Charts. Journal of Quality Technology, 2011, 43, 43-49.	2.5	15
56	The Use of 3D Laser Scanners in Statistical Process Control. , 0, , .		6