Azlan Mohd Zain

List of Publications by Year
in descending order

117 papers	3,483 citations	159585 30 h-index	161849 54 g-index
118 all docs	118 docs citations	118 times ranked	2705 citing authors

#	Article	IF	Citations
1	Prediction of surface roughness in the end milling machining using Artificial Neural Network. Expert Systems With Applications, 2010, 37, 1755-1768.	7.6	315
2	Overview of NSGA-II for Optimizing Machining Process Parameters. Procedia Engineering, 2011, 15, 3978-3983.	1.2	283
3	Evolutionary techniques in optimizing machining parameters: Review and recent applications (2007â€"2011). Expert Systems With Applications, 2012, 39, 9909-9927.	7.6	207
4	Application of GA to optimize cutting conditions for minimizing surface roughness in end milling machining process. Expert Systems With Applications, 2010, 37, 4650-4659.	7.6	176
5	Levy Flight Algorithm for Optimization Problems - A Literature Review. Applied Mechanics and Materials, 0, 421, 496-501.	0.2	123
6	Fuzzy logic for modeling machining process: a review. Artificial Intelligence Review, 2015, 43, 345-379.	15.7	115
7	Firefly Algorithm for Optimization Problem. Applied Mechanics and Materials, 0, 421, 512-517.	0.2	101
8	Cuckoo Search Algorithm for Optimization Problemsâ€"A Literature Review and its Applications. Applied Artificial Intelligence, 2014, 28, 419-448.	3.2	90
9	Real-Time DDoS Attack Detection System Using Big Data Approach. Sustainability, 2021, 13, 10743.	3.2	86
10	Estimation of the minimum machining performance in the abrasive waterjet machining using integrated ANN-SA. Expert Systems With Applications, 2011, 38, 8316-8326.	7.6	80
11	Optimization of process parameters in the abrasive waterjet machining using integrated SAâ€"GA. Applied Soft Computing Journal, 2011, 11, 5350-5359.	7.2	76
12	Overview of Support Vector Machine in Modeling Machining Performances. Procedia Engineering, 2011, 24, 308-312.	1.2	75
13	Image-Based Malware Classification Using VGG19 Network and Spatial Convolutional Attention. Electronics (Switzerland), 2021, 10, 2444.	3.1	74
14	Potential of Conformal Cooling Channels in Rapid Heat Cycle Molding: A Review. Advances in Polymer Technology, 2014, 33, .	1.7	72
15	Robust optimization of ANFIS based on a new modified GA. Neurocomputing, 2015, 166, 357-366.	5.9	72
16	Multi-objective hybrid evolutionary algorithms for radial basis function neural network design. Knowledge-Based Systems, 2012, 27, 475-497.	7.1	68
17	Fuzzy Petri nets and industrial applications: a review. Artificial Intelligence Review, 2016, 45, 405-446.	15.7	68
18	Overview of PSO for Optimizing Process Parameters of Machining. Procedia Engineering, 2012, 29, 914-923.	1.2	66

#	Article	IF	Citations
19	Recent studies on optimisation method of Grey Wolf Optimiser (GWO): a review (2014–2017). Artificial Intelligence Review, 2019, 52, 2651-2683.	15.7	64
20	Blockchain-Based IoT Devices in Supply Chain Management: A Systematic Literature Review. Sustainability, 2021, 13, 13646.	3.2	63
21	Social Media and Stock Market Prediction: A Big Data Approach. Computers, Materials and Continua, 2021, 67, 2569-2583.	1.9	60
22	Estimation of optimal machining control parameters using artificial bee colony. Journal of Intelligent Manufacturing, 2014, 25, 1463-1472.	7.3	57
23	Regression and ANN models for estimating minimum value of machining performance. Applied Mathematical Modelling, 2012, 36, 1477-1492.	4.2	55
24	Glowworm swarm optimization (GSO) for optimization of machining parameters. Journal of Intelligent Manufacturing, 2016, 27, 797-804.	7.3	51
25	Integrated ANN–GA for estimating the minimum value for machining performance. International Journal of Production Research, 2012, 50, 191-213.	7.5	43
26	Hybrid GR-SVM for prediction of surface roughness in abrasive water jet machining. Meccanica, 2013, 48, 1937-1945.	2.0	43
27	SIMULATED ANNEALING TO ESTIMATE THE OPTIMAL CUTTING CONDITIONS FOR MINIMIZING SURFACE ROUGHNESS IN END MILLING Ti-6Al-4V. Machining Science and Technology, 2010, 14, 43-62.	2.5	40
28	Genetic Algorithm and Simulated Annealing to estimate optimal process parameters of the abrasive waterjet machining. Engineering With Computers, 2011, 27, 251-259.	6.1	39
29	Improving the Quality and Productivity of Molded Parts with a New Design of Conformal Cooling Channels for the Injection Molding Process. Advances in Polymer Technology, 2016, 35, .	1.7	38
30	Integration of simulated annealing and genetic algorithm to estimate optimal solutions for minimising surface roughness in end milling Ti-6AL-4V. International Journal of Computer Integrated Manufacturing, 2011, 24, 574-592.	4.6	36
31	Detection of COVID-19 in Chest X-ray Images: A Big Data Enabled Deep Learning Approach. International Journal of Environmental Research and Public Health, 2021, 18, 10147.	2.6	36
32	A decomposition algorithm of fuzzy Petri net using an index function and incidence matrix. Expert Systems With Applications, 2015, 42, 3980-3990.	7.6	35
33	A multi-performance prediction model based on ANFIS and new modified-GA for machining processes. Journal of Intelligent Manufacturing, 2015, 26, 703-716.	7.3	34
34	UFSW tool pin profile effects on properties of aluminium-steel joint. Vacuum, 2021, 192, 110460.	3.5	34
35	The role of basic, modified and hybrid shuffled frog leaping algorithm on optimization problems: a review. Soft Computing, 2015, 19, 2011-2038.	3.6	33
36	A process prediction model based on Cuckoo algorithm for abrasive waterjet machining. Journal of Intelligent Manufacturing, 2015, 26, 1247-1252.	7.3	33

#	Article	IF	Citations
37	A Review On Missing Value Estimation Using Imputation Algorithm. Journal of Physics: Conference Series, 2017, 892, 012004.	0.4	32
38	Automatic COVID-19 Lung Infection Segmentation through Modified Unet Model. Journal of Healthcare Engineering, 2022, 2022, 1-13.	1.9	31
39	Potential ANN prediction model for multiperformances WEDM on Inconel 718. Neural Computing and Applications, 2018, 30, 2113-2127.	5.6	29
40	Cuckoo Search Algorithm for Optimization Problems - A Literature Review. Applied Mechanics and Materials, 0, 421, 502-506.	0.2	26
41	Cricket Match Analytics Using the Big Data Approach. Electronics (Switzerland), 2021, 10, 2350.	3.1	25
42	Fake News Data Exploration and Analytics. Electronics (Switzerland), 2021, 10, 2326.	3.1	24
43	An equivalent generating algorithm to model fuzzy Petri net for knowledge-based system. Journal of Intelligent Manufacturing, 2019, 30, 1831-1842.	7.3	22
44	Glowworm Swarm Optimization (GSO) Algorithm for Optimization Problems: A State-of-the-Art Review. Applied Mechanics and Materials, 2013, 421, 507-511.	0.2	20
45	An overview of GA technique for surface roughness optimization in milling process. , 2008, , .		15
46	Review of ANN Technique for Modeling Surface Roughness Performance Measure in Machining Process. , 2009, , .		15
47	Orthogonal based ANN and multiGA for optimization on WEDM of Ti–48Al intermetallic alloys. Artificial Intelligence Review, 2019, 52, 671-706.	15.7	15
48	A review of Harmony Search algorithm-based feature selection method for classification. Journal of Physics: Conference Series, 2019, 1192, 012038.	0.4	14
49	Consideration of Canny Edge Detection for Eye Redness Image Processing: A Review. IOP Conference Series: Materials Science and Engineering, 2019, 551, 012045.	0.6	14
50	Warpage Optimisation on the Moulded Part with Straight Drilled and Conformal Cooling Channels Using Response Surface Methodology (RSM), Glowworm Swarm Optimisation (GSO) and Genetic Algorithm (GA) Optimisation Approaches. Materials, 2021, 14, 1326.	2.9	14
51	The influence of the backing plate materials on microstructure and mechanical properties of friction spot extrusion brazing of AA2024-T3 aluminum alloy and Brass sheets. Journal of Manufacturing Processes, 2022, 74, 28-39.	5.9	14
52	A Simultaneous Approach for Compression and Encryption Techniques Using Deoxyribonucleic Acid. , 2019, , .		13
53	Suicide Bomb Attack Identification and Analytics through Data Mining Techniques. Electronics (Switzerland), 2021, 10, 2398.	3.1	13
54	Machining Parameters Optimization using Hybrid Firefly Algorithm and Particle Swarm Optimization. Journal of Physics: Conference Series, 2017, 892, 012005.	0.4	12

#	Article	IF	Citations
55	Overview of Artificial Fish Swarm Algorithm and its Applications in Industrial Problems. Applied Mechanics and Materials, 2015, 815, 253-257.	0.2	11
56	Review of modified and hybrid flower pollination algorithms for solving optimization problems. Artificial Intelligence Review, 2019, 52, 1547-1577.	15.7	11
57	Optimal injection process parameter analysis for front panel housing using response surface methodology. AIP Conference Proceedings, 2017, , .	0.4	10
58	Harmony search algorithm and related variants: A systematic review. Swarm and Evolutionary Computation, 2022, 74, 101126.	8.1	10
59	Dynamic properties of fuzzy Petri net model and related analysis. Journal of Central South University, 2015, 22, 4717-4723.	3.0	9
60	A Bidirectional Diagnosis Algorithm of Fuzzy Petri Net Using Inner-Reasoning-Path. Symmetry, 2018, 10, 192.	2.2	9
61	An Improved Cuckoo Search Algorithm Utilizing Nonlinear Inertia Weight and Differential Evolution for Function Optimization Problem. IEEE Access, 2021, 9, 161352-161373.	4.2	9
62	Modeling, reasoning, and application of fuzzy Petri net model: a survey. Artificial Intelligence Review, 2022, 55, 6567-6605.	15.7	9
63	Milled Groove Square Shape Conformal Cooling Channels in Injection Moulding Process. Materials and Manufacturing Processes, 0, , 130122112458009.	4.7	8
64	Weighted Fuzzy Production Rule Extraction Using Modified Harmony Search Algorithm and BP Neural Network Framework. IEEE Access, 2020, 8, 186620-186637.	4.2	8
65	Warpage Analysis with Straight Drilled and Conformal Cooling Channels on Front Panel Housing by Using Taguchi Method. Key Engineering Materials, 0, 594-595, 593-603.	0.4	7
66	A note of hybrid GR-SVM for prediction of surface roughness in abrasive water jet machining: a response. Meccanica, 2017, 52, 1993-1994.	2.0	7
67	Harmony search optimization in dimensional accuracy of die sinking EDM process using SS316L stainless steel. Journal of Physics: Conference Series, 2017, 892, 012003.	0.4	7
68	An Improved Multi-Objective Cuckoo Search Approach by Exploring the Balance between Development and Exploration. Electronics (Switzerland), 2022, 11, 704.	3.1	7
69	Consideration of Fuzzy Components for Prediction of Machining Performance: A Review. Procedia Engineering, 2011, 24, 754-758.	1.2	6
70	Modeling and Optimization of Machining Parameters Using Regression and Cuckoo Search in Deep Hole Drilling Process. Applied Mechanics and Materials, 0, 892, 177-184.	0.2	6
71	Application of Regression and ANN Techniques for Modeling of the Surface Roughness in End Milling Machining Process. , 2009, , .		5
72	Detecting SIM Box Fraud by Using Support Vector Machine and Artificial Neural Network. Jurnal Teknologi (Sciences and Engineering), 2015, 74, .	0.4	5

#	Article	IF	Citations
73	The feasibility of friction stir spot extrusion-brazing of AA5083-H112 aluminum alloy to brass sheets with Zn interlayer. Materials Letters, 2022, 308, 131084.	2.6	5
74	An integrated study of surface roughness in EDM process using regression analysis and GSO algorithm. Journal of Physics: Conference Series, 2017, 892, 012002.	0.4	4
75	A Study of Dimensional Accuracy on Die Sinking Electrical Discharge Machining of Ti-6AL-4V. Indian Journal of Science and Technology, 2017, 10, 1-6.	0.7	4
76	Artificial Neural Network for Predicting Machining Performance of Uncoated Carbide (WC-Co) in Milling Machining Operation. , 2009, , .		3
77	Optimization of Surface Roughness in Turning Operation Using Firefly Algorithm. Applied Mechanics and Materials, 2015, 815, 268-272.	0.2	3
78	Overview Feature Selection using Fish Swarm Algorithm. Journal of Physics: Conference Series, 2019, 1192, 012068.	0.4	3
79	Fuzzy Rule-Based to Predict the Minimum Surface Roughness in the Laser Assisted Machining (LAM). Lecture Notes in Electrical Engineering, 2014, , 627-632.	0.4	3
80	Optimization of Machining Parameters for Minimization of Roundness Error in Deep Hole Drilling using Minimum Quantity Lubricant. MATEC Web of Conferences, 2016, 78, 01024.	0.2	2
81	A study of electrode wear ratio on EDM of Ti-6AL-4V with copper-tungsten electrode. MATEC Web of Conferences, 2016, 78, 01013.	0.2	2
82	Improving Warpage with Milled Groove Square Shape Conformal Cooling Channels. Key Engineering Materials, 2016, 700, 31-41.	0.4	2
83	Computational Approach for Multi Performances Optimization of EDM. MATEC Web of Conferences, 2016, 78, 01014.	0.2	2
84	Analysis of the shrinkage at the thick plate part using response surface methodology. AIP Conference Proceedings, 2017, , .	0.4	2
85	Hybrid Knowledge Extraction Framework Using Modified Adaptive Genetic Algorithm and BPNN. IEEE Access, 2022, 10, 72037-72050.	4.2	2
86	Prediction of Surface Roughness in the End Milling Machining Using Fuzzy Rule-Based. Applied Mechanics and Materials, 2013, 421, 244-249.	0.2	1
87	Gravitational Search Algorithm for Engineering: A Review. Applied Mechanics and Materials, 2015, 815, 417-420.	0.2	1
88	Eye Redness Image Processing Techniques. Journal of Physics: Conference Series, 2017, 892, 012019.	0.4	1
89	AI approaches: Recent studies on shrinkage optimisation in injection moulding process. AIP Conference Proceedings, 2018, , .	0.4	1
90	Non-conventional approaches for warpage minimization in injection molding process. AIP Conference Proceedings, 2018, , .	0.4	1

#	Article	IF	Citations
91	AI for Heart Rate Measurements for Sport Performance: A review. IOP Conference Series: Materials Science and Engineering, 2019, 551, 012041.	0.6	1
92	Overview of Machine Vision on Digital Imaging Approach for Automatic Tuna Length Measurement. IOP Conference Series: Materials Science and Engineering, 2019, 551, 012076.	0.6	1
93	Taguchi Method Used in Optimization of Plastic Injection Molding. IOP Conference Series: Materials Science and Engineering, 2019, 551, 012078.	0.6	1
94	A New Hybrid Algorithm Based on ABC and PSO for Function Optimization. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012065.	0.6	1
95	Development of Tic-Tac-Toe Game Using Heuristic Search. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012090.	0.6	1
96	Study of Artificial Intelligence into Checkers Game using HTML and JavaScript. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012091.	0.6	1
97	A Grey Wolf Optimizer based Support Vector Machine for Classification of Finger Movement. International Journal of Advanced Trends in Computer Science and Engineering, 2019, 8, 124-129.	0.2	1
98	Genetic Algorithm for optimizing cutting conditions of uncoated carbide (WC-Co) in milling machining operation. , 2009, , .		0
99	Fuzzy rule-based for predicting machining performance for SN<inf>TR</inf> carbide in milling titanium alloy (Ti-6Al-4v). , 2012, , .		0
100	Overview of Fuzzy Logic Technique for Modeling Machining Process. Applied Mechanics and Materials, 0, 815, 264-267.	0.2	0
101	Overview of Harmony Search (HS) Algorithm for Green Manufacturing Industries. Applied Mechanics and Materials, 0, 815, 413-416.	0.2	0
102	AN IMPROVEMENT IN SUPPORT VECTOR MACHINE CLASSIFICATION MODEL USING GREY RELATIONAL ANALYSIS FOR CANCER DIAGNOSIS. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
103	Experimental study of surface roughness in Electric Discharge Machining (EDM) based on Grey Relational Analysis. MATEC Web of Conferences, 2016, 78, 01015.	0.2	0
104	An experimental result of surface roughness machining performance in deep hole drilling. MATEC Web of Conferences, 2016, 78, 01036.	0.2	0
105	Parameter Optimization of Gradient Tree Boosting Using Dragonfly Algorithm in Crime Forecasting and Analysis. Journal of Computer Science, 2019, 15, 1085-1096.	0.6	0
106	A Brief Conceptual View on Classification Using Support Vector Machine. IOP Conference Series: Materials Science and Engineering, 2019, 551, 012035.	0.6	0
107	The Performance Review of mRMR for Gene Selection and Classification of DNA Microarrays. IOP Conference Series: Materials Science and Engineering, 2019, 551, 012040.	0.6	0
108	Comparative Study of Segmentation and Feature Extraction Method on Finger Movement. Advances in Intelligent Systems and Computing, 2019, , 117-127.	0.6	0

#	Article	IF	Citations
109	Wire Electrical Discharge Machining (WEDM) optimization process: A conceptual view. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012089.	0.6	0
110	Feature Selection of High Dimensional Data Using Hybrid FSA-IG. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012066.	0.6	0
111	Developing an Impartial Game by Mathematical Approach. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012092.	0.6	0
112	Optimization of cylindricity in deep hole drilling using Cuckoo search algorithm (CS). AIP Conference Proceedings, 2021, , .	0.4	0
113	Optimization of roundness error in deep hole drilling using moth-flame optimization. AIP Conference Proceedings, 2021, , .	0.4	0
114	Estimating Minimum Processing Time of Liquid Crystal Display Monitor Hinge in 2D Contouring Machining. Communications in Computer and Information Science, 2011, , 239-249.	0.5	0
115	Communications in Computer and Information Science: Computational Approaches for Optimization of Sport Rim Parameters. Communications in Computer and Information Science, 2011, , 228-238.	0.5	0
116	MULTI OBJECTIVE MACHINING ESTIMATION MODEL USING ORTHOGONAL AND NEURAL NETWORK. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
117	Application of Whale Optimisation Algorithm in Injection Moulding Process. International Journal of Advanced Trends in Computer Science and Engineering, 2019, 8, 130-134.	0.2	0