Dilip Kumar Pratihar

List of Publications by Year
in descending order

206	3,689	136740	205818
papers	citations	32 h-index	48 g-index

214	214	214	2483
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A survey on influence maximization in a social network. Knowledge and Information Systems, 2020, 62, 3417-3455.	2.1	121
2	Task allocation and collision-free path planning of centralized multi-robots system for industrial plant inspection using heuristic methods. Robotics and Autonomous Systems, 2016, 80, 34-42.	3.0	110
3	A genetic-fuzzy approach for mobile robot navigation among moving obstacles. International Journal of Approximate Reasoning, 1999, 20, 145-172.	1.9	105
4	Optimization of bead geometry in electron beam welding using a Genetic Algorithm. Journal of Materials Processing Technology, 2009, 209, 1151-1157.	3.1	100
5	Modeling of TIG welding process using conventional regression analysis and neural network-based approaches. Journal of Materials Processing Technology, 2007, 184, 56-68.	3.1	91
6	Time-optimal, collision-free navigation of a car-like mobile robot using neuro-fuzzy approaches. Fuzzy Sets and Systems, 2006, 157, 2171-2204.	1.6	86
7	Effects of turning gait parameters on energy consumption and stability of a six-legged walking robot. Robotics and Autonomous Systems, 2012, 60, 72-82.	3.0	78
8	Tuning of neural networks using particle swarm optimization to model MIG welding process. Swarm and Evolutionary Computation, 2011, 1, 223-235.	4.5	76
9	Identification of flow regimes using conductivity probe signals and neural networks for counter-current gasâ€“liquid two-phase flow. Chemical Engineering Science, 2012, 84, 417-436.	1.9	67
10	Optimal path and gait generations simultaneously of a six-legged robot using a GA-fuzzy approach. Robotics and Autonomous Systems, 2002, 41, 1-20.	3.0	56
11	An optimization-based decision tree approach for predicting slip-trip-fall accidents at work. Safety Science, 2019, 118, 57-69.	2.6	55
12	ComBIM: A community-based solution approach for the Budgeted Influence Maximization Problem. Expert Systems With Applications, 2019, 125, 1-13.	4.4	53
13	An integrated fuzzy multiple criteria supplier selection approach and its application in a welding company. Journal of Manufacturing Systems, 2018, 46, 163-178.	7.6	51
14	Global versus cluster-wise regression analyses for prediction of bead geometry in MIG welding process. Journal of Materials Processing Technology, 2007, 189, 352-366.	3.1	50
15	Kinematics, Dynamics and Power Consumption Analyses for Turning Motion of a Six-Legged Robot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 74, 663-688.	2.0	49
16	Laser forming of a dome shaped surface: Experimental investigations, statistical analysis and neural network modeling. Optics and Lasers in Engineering, 2014, 53, 31-42.	2.0	49
17	Optimization of CNC isoscallop free form surface machining using a genetic algorithm. International Journal of Machine Tools and Manufacture, 2006, 46, 811-819.	6.2	48
18	A comparative study on some navigation schemes of a real robot tackling moving obstacles. Robotics and Computer-Integrated Manufacturing, 2009, 25, 810-828.	6.1	48

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19	Detection and quantitative assessment of corrosion on pipelines through image analysis. Procedia Computer Science, 2018, 133, 804-811.	1.2	47
20	Dynamic modeling, stability and energy consumption analysis of a realistic six-legged walking robot. Robotics and Computer-Integrated Manufacturing, 2013, 29, 400-416.	6.1	46
21	Experimental investigations and statistical analysis of pulsed laser bending of AISI 304 stainless steel sheet. Optics and Laser Technology, 2013, 49, 18-27.	2.2	46
22	Linear and non-linear statistical modelling of green sand mould system. International Journal of Cast Metals Research, 2007, 20, 1-13.	0.5	44
23	Forward and reverse mappings in green sand mould system using neural networks. Applied Soft Computing Journal, 2008, 8, 239-260.	4.1	44
24	Forward and reverse mappings of electrical discharge machining process using adaptive network-based fuzzy inference system. Expert Systems With Applications, 2010, 37, 8566-8574.	4.4	44
25	Modeling of the MIG welding process using statistical approaches. International Journal of Advanced Manufacturing Technology, 2008, 35, 1166-1190.	1.5	43
26	Optimum stacking pattern for multi-stream plate-fin heat exchanger through a genetic algorithm. International Journal of Thermal Sciences, 2011, 50, 214-224.	2.6	43
27	On-line stable gait generation of a two-legged robot using a geneticâ€“fuzzy system. Robotics and Autonomous Systems, 2005, 53, 15-35.	3.0	39
28	Design of a genetic-fuzzy system to predict surface finish and power requirement in grinding. Fuzzy Sets and Systems, 2004, 148, 487-504.	1.6	37
29	Phenomenological model-based study on electron beam welding process, and input-output modeling using neural networks trained by back-propagation algorithm, genetic algorithms, particle swarm optimization algorithm and bat algorithm. Applied Intelligence, 2018, 48, 2698-2718.	3.3	37
30	Estimation of optimal feet forces and joint torques for on-line control of six-legged robot. Robotics and Computer-Integrated Manufacturing, 2011, 27, 910-917.	6.1	35
31	Multi-sensors data fusion through fuzzy clustering and predictive tools. Expert Systems With Applications, 2018, 107, 165-172.	4.4	35
32	Automatic design of fuzzy logic controller using a genetic algorithmâ€”to predict power requirement and surface finish in grinding. Journal of Materials Processing Technology, 2004, 148, 288-300.	3.1	34
33	Automatic classification of vertical counter-current two-phase flow by capturing hydrodynamic characteristics through objective descriptions. International Journal of Multiphase Flow, 2013, 52, 102-120.	1.6	34
34	Evolutionary roboticsâ€”A review. Sadhana - Academy Proceedings in Engineering Sciences, 2003, 28, 999-1009.	0.8	33
35	A combined neural network and genetic algorithm based approach for optimally designed femoral implant having improved primary stability. Applied Soft Computing Journal, 2016, 38, 296-307.	4.1	33
36	Multi-objective Bonobo Optimizer (MOBO): an intelligent heuristic for multi-criteria optimization. Knowledge and Information Systems, 2020, 62, 4407-4444.	2.1	32

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37	Soft computing-based gait planners for a dynamically balanced biped robot negotiating sloping surfaces. Applied Soft Computing Journal, 2009, 9, 191-208.	4.1	31
38	Modeling of Electrical Discharge Machining Process Using Conventional Regression Analysis and Genetic Algorithms. Journal of Materials Engineering and Performance, 2011, 20, 1121-1127.	1.2	31
39	Modeling of plasma spray coating process using statistical regression analysis. International Journal of Advanced Manufacturing Technology, 2013, 65, 967-980.	1.5	31
40	FUZZY-GENETIC ALGORITHMS AND TIME-OPTIMAL OBSTACLE-FREE PATH GENERATION FOR MOBILE ROBOTS. Engineering Optimization, 1999, 32, 117-142.	1.5	30
41	Non-linear modelling using central composite design to predict green sand mould properties. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2007, 221, 881-895.	1.5	30
42	Modelling of weld-bead geometry and hardness profile in laser welding of plain carbon steel using neural networks and genetic algorithms. International Journal of Computer Integrated Manufacturing, 2014, 27, 656-674.	2.9	30
43	Effects of process parameters on the quality aspects of weld-bead in laser welding of NiTinol sheets. Materials and Manufacturing Processes, 2019, 34, 648-659.	2.7	30
44	Bonobo optimizer (BO): an intelligent heuristic with self-adjusting parameters over continuous spaces and its applications to engineering problems. Applied Intelligence, 2022, 52, 2942-2974.	3.3	30
45	Analysis and synthesis of laser forming process using neural networks and neuro-fuzzy inference system. Soft Computing, 2013, 17, 849-865.	2.1	29
46	Optimization and prediction of weldment profile in bead-on-plate welding of Al-1100 plates using electron beam. International Journal of Advanced Manufacturing Technology, 2010, 48, 513-528.	1.5	28
47	Dynamically balanced optimal gaits of a ditch-crossing biped robot. Robotics and Autonomous Systems, 2010, 58, 349-361.	3.0	28
48	Experimental investigations, input-output modeling and optimization for electron beam welding of Cu-Cr-Zr alloy plates. International Journal of Advanced Manufacturing Technology, 2016, 85, 711-726.	1.5	27
49	A New Bonobo optimizer (BO) for Real-Parameter optimization. , 2019, , .		27
50	Cooling rate predictions and its correlation with grain characteristics during electron beam welding of stainless steel. International Journal of Advanced Manufacturing Technology, 2018, 97, 2241-2254.	1.5	26
51	Study on electron beam butt welding of austenitic stainless steel 304 plates and its inputâ€“output modelling using neural networks. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2011, 225, 2051-2070.	1.5	25
52	Modeling of inputâ€“output relationships for a plasma spray coating process using soft computing tools. Applied Soft Computing Journal, 2012, 12, 3356-3368.	4.1	25
53	Knowledge-based systems using neural networks for electron beam welding process of reactive material (Zircaloy-4). Journal of Intelligent Manufacturing, 2014, 25, 1315-1333.	4.4	25
54	Optimization of variable demand fuzzy economic order quantity inventory models without and with backordering. Computers and Industrial Engineering, 2014, 78, 148-162.	3.4	25

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55	Experimental investigations, modeling, and optimization of multi-scan laser forming of AISI 304 stainless steel sheet. International Journal of Advanced Manufacturing Technology, 2016, 83, 1441-1455.	1.5	25
56	Neural Network-Based Approaches for Forward and Reverse Mappings of Sodium Silicate-Bonded, Carbon Dioxide Gas Hardened Moulding Sand System. Materials and Manufacturing Processes, 2008, 24, 59-67.	2.7	24
57	Real-Time Detection of Actual and Early Gait Events During Level-Ground and Ramp Walking. IEEE Sensors Journal, 2020, 20, 8128-8136.	2.4	24
58	Modeling of TIG welding and abrasive flow machining processes using radial basis function networks. International Journal of Advanced Manufacturing Technology, 2008, 37, 937-952.	1.5	23
59	DYNAMICALLY BALANCED ASCENDING AND DESCENDING GAITS OF A TWO-LEGGED ROBOT. International Journal of Humanoid Robotics, 2007, 04, 717-751.	0.6	22
60	Fuzzy-Logic-Based Screening and Prediction of Adult Psychoses: A Novel Approach. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 381-387.	3.4	22
61	Genetic algorithm-tuned entropy-based fuzzy C-means algorithm for obtaining distinct and compact clusters. Fuzzy Optimization and Decision Making, 2011, 10, 153-166.	3.4	22
62	A directional crossover (DX) operator for real parameter optimization using genetic algorithm. Applied Intelligence, 2019, 49, 1841-1865.	3.3	22
63	Experimental investigation and parametric optimization for minimization of dilution during direct laser metal deposition of tungsten carbide and cobalt powder mixture on SS304 substrate. Powder Technology, 2021, 390, 339-353.	2.1	22
64	Fuzzy logic-based expert system to predict the results of finite element analysis. Knowledge-Based Systems, 2007, 20, 37-50.	4.0	21
65	A Genetic Algorithm Based Multi-Objective Shape Optimization Scheme for Cementless Femoral Implant. Journal of Biomechanical Engineering, 2015, 137, .	0.6	21
66	Study on feet forces' distributions, energy consumption and dynamic stability measure of hexapod robot during crab walking. Applied Mathematical Modelling, 2019, 65, 717-744.	2.2	21
67	Prediction of residual stress in electron beam welding of stainless steel from process parameters and natural frequency of vibrations using machine-learning algorithms. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 2008-2021.	1.1	21
68	Optimal turning gait of a six-legged robot using a GA-fuzzy approach. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2000, 14, 207-219.	0.7	20
69	Developing fuzzy classifiers to predict the chance of occurrence of adult psychoses. Knowledge-Based Systems, 2008, 21, 479-497.	4.0	20
70	Neural network-based expert systems for predictions of temperature distributions in electron beam welding process. International Journal of Advanced Manufacturing Technology, 2011, 55, 535-548.	1.5	19
71	Properties of a projected network of a bipartite network. , 2017, , .		19
72	Solving engineering optimization problems using an improved real-coded genetic algorithm (IRGA) with directional mutation and crossover. Soft Computing, 2021, 25, 5455-5481.	2.1	19

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73	An expert system based on FBFN using a GA to predict surface finish in ultra-precision turning. Journal of Materials Processing Technology, 2004, 155-156, 1150-1156.	3.1	18
74	Modelling of inputâ€“output relationships in cement bonded moulding sand system using neural networks. International Journal of Cast Metals Research, 2007, 20, 265-274.	0.5	18
75	Some studies on fuzzy clustering of psychosis data. International Journal of Business Intelligence and Data Mining, 2007, 2, 143.	0.2	18
76	Linear and Non-linear Modeling of Cement-bonded Moulding Sand System Using Conventional Statistical Regression Analysis. Journal of Materials Engineering and Performance, 2008, 17, 472-481.	1.2	17
77	Joint optimization of preventive maintenance and spare parts inventory using genetic algorithms and particle swarm optimization algorithm. International Journal of Systems Assurance Engineering and Management, 2015, 6, 248-258.	1.5	17
78	Expert systems in manufacturing processes using soft computing. International Journal of Advanced Manufacturing Technology, 2015, 81, 887-896.	1.5	17
79	Three-dimensional finite element analysis of multi-stage hot forming of railway wheels. International Journal of Advanced Manufacturing Technology, 2011, 53, 301-312.	1.5	16
80	An approach towards energy and material efficient additive manufacturing: Multi-objective optimization of stellite-6 deposition on SS304. Optics and Laser Technology, 2022, 148, 107799.	2.2	15
81	Expert system to predict forging load and axial stress. Applied Soft Computing Journal, 2011, 11, 744-753.	4.1	14
82	A novel approach for neuro-fuzzy system-based multi-objective optimization to capture inherent fuzziness in engineering processes. Knowledge-Based Systems, 2019, 175, 1-11.	4.0	14
83	Experimental investigations and parametric optimization of laser beam welding of NiTinol sheets by metaheuristic techniques and desirability function analysis. Optics and Laser Technology, 2020, 124, 105982.	2.2	14
84	Dynamic modeling and energy consumption analysis of crab walking of a six-legged robot. , 2011, , .		13
85	Effects of Heat Input on Weld-Bead Geometry, Surface Chemical Composition, Corrosion Behavior and Thermal Properties of Fiber Laser-Welded Nitinol Shape Memory Alloy. Journal of Materials Engineering and Performance, 2019, 28, 2754-2763.	1.2	13
86	Nature-Inspired Optimization Algorithm-Tuned Feed-Forward and Recurrent Neural Networks Using CFD-Based Phenomenological Model-Generated Data to Model the EBW Process. Arabian Journal for Science and Engineering, 2020, 45, 2779-2797.	1.7	13
87	Weld optimisation. Science and Technology of Welding and Joining, 2021, 26, 181-195.	1.5	13
88	Forward and reverse mappings of the tungsten inert gas welding process using radial basis function neural networks. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2009, 223, 1575-1590.	1.5	12
89	Estimation of Joint Torque and Power Consumption During Sit-to-Stand Motion of Human-being Using a Genetic Algorithm. Procedia Computer Science, 2016, 96, 1497-1506.	1.2	12
90	Camera calibration using a genetic algorithm. Engineering Optimization, 2008, 40, 1151-1169.	1.5	11

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91	Inverse estimation of location of internal heat source in conduction. Inverse Problems in Science and Engineering, 2011, 19, 337-361.	1.2	11
92	Finite Element Analysis and Experimental Investigations on Laser Bending of AISI304 Stainless Steel Sheet. Procedia Engineering, 2013, 64, 528-535.	1.2	11
93	A comparative assessment of two designs of hip stem using rule-based simulation of combined osseointegration and remodelling. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 118-128.	1.0	11
94	Establishing a Correlation Between Residual Stress and Natural Frequency of Vibration for Electron Beam Butt Weld of AISI 304 Stainless Steel. Arabian Journal for Science and Engineering, 2020, 45, 5769-5781.	1.7	11
95	Study on mechanical and metallurgical properties of fiber laser welded Nb-1% Zr-0.1% C alloy. Optics and Laser Technology, 2020, 127, 106153.	2.2	11
96	Balanced gait generations of a two-legged robot on sloping surface. Sadhana - Academy Proceedings in Engineering Sciences, 2011, 36, 525-550.	0.8	10
97	Computer aided modeling and analysis of turning motion of hexapod robot on varying terrains. International Journal of Mechanics and Materials in Design, 2015, 11, 309-336.	1.7	10
98	A novel energy efficient powered ankle prosthesis using four-bar controlled compliant actuator. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 4664-4675.	1.1	10
99	Electron beam butt welding of Cu-Cr-Zr alloy plates: Experimental investigations, studies on metallurgical and mechanical properties. Fusion Engineering and Design, 2018, 137, 209-220.	1.0	10
100	Forward and inverse predictions of deformations in laser forming of shaped surfaces under coupling mechanism. Journal of Laser Applications, 2018, 30, .	0.8	10
101	Reporting cell planning-based cellular mobility management using a Binary Artificial Bat algorithm. Heliyon, 2019, 5, e01276.	1.4	10
102	A Geometry Recognition-Based Strategy for Locomotion Transitions Early Prediction of Prosthetic Devices. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1259-1267.	2.4	10
103	Evolution of Fuzzy Controllers and Applications. Studies in Computational Intelligence, 2007, , 47-69.	0.7	10
104	Automatic design of fuzzy logic controller using a genetic algorithm for collision-free, time-optimal navigation of a car-like robot. International Journal of Hybrid Intelligent Systems, 2005, 2, 161-187.	0.9	9
105	ONLINE DYNAMICALLY BALANCED ASCENDING AND DESCENDING GAIT GENERATIONS OF A BIPED ROBOT USING SOFT COMPUTING. International Journal of Humanoid Robotics, 2007, 04, 777-814.	0.6	9
106	Modelling of electrical discharge machining process using regression analysis, adaptive neuro-fuzzy inference system and genetic algorithm. International Journal of Data Mining, Modelling and Management, 2010, 2, 75.	0.1	9
107	Statistical modeling of psychosis data. Computer Methods and Programs in Biomedicine, 2010, 100, 222-236.	2.6	9
108	Soft computing-based expert systems to predict energy consumption and stability margin in turning gaits of six-legged robots. Expert Systems With Applications, 2012, 39, 5460-5469.	4.4	9

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109	Hierarchical adaptive neuro-fuzzy inference systems trained by evolutionary algorithms to model plasma spray coating process. Journal of Intelligent and Fuzzy Systems, 2013, 24, 355-362.	0.8	9
110	Effects of Electron Beam Welding on Microstructure, Microhardness, and Electrical Conductivity of Cu-Cr-Zr Alloy Plates. Journal of Materials Engineering and Performance, 2015, 24, 4681-4690.	1.2	9
111	Analysis of double support phase of biped robot and multi-objective optimization using genetic algorithm and particle swarm optimization algorithm. Sadhana - Academy Proceedings in Engineering Sciences, 2015, 40, 549-575.	0.8	9
112	A Direction-Based Exponential Mutation Operator for Real-Coded Genetic Algorithm. , 2018, , .		9
113	Prediction of Step Length Using Neuro-Fuzzy Approach Suitable for Prosthesis Control. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5658-5665.	2.4	9
114	Forward and reverse modeling of electron beam welding process using radial basis function neural networks. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2010, 14, 201-215.	0.7	8
115	Adaptive neuro-fuzzy expert systems for predicting specific energy consumption and energy stability margin in crab walking of six-legged robots. Journal of Intelligent and Fuzzy Systems, 2013, 24, 467-482.	0.8	8
116	Energy-efficient inverse dynamic model of a Hexapod robot. , 2015, , .		8
117	Effects of interfacial conditions on shape optimization of cementless hip stem: an investigation based on a hybrid framework. Structural and Multidisciplinary Optimization, 2016, 53, 1143-1155.	1.7	8
118	Multi-Legged Robotsâ€"A Review. Cognitive Intelligence and Robotics, 2020, , 11-32.	0.6	8
119	Near-optimal gait generations of a two-legged robot on rough terrains using soft computing. Robotics and Computer-Integrated Manufacturing, 2011, 27, 521-530.	6.1	7
120	Soft computing-based approaches to predict energy consumption and stability margin of six-legged robots moving on gradient terrains. Applied Intelligence, 2012, 37, 31-46.	3.3	7
121	Towards the optimal design of an uncemented acetabular component using genetic algorithms. Engineering Optimization, 2015, 47, 1587-1601.	1.5	7
122	Performance improvement of a genetic algorithm using a novel restart strategy with elitism principle. International Journal of Hybrid Intelligent Systems, 2019, 15, 1-15.	0.9	7
123	Effects of space charge on weld geometry and cooling rate during electron beam welding of stainless steel. Optik, 2020, 206, 163722.	1.4	7
124	Optimum Design of a Two Step Planar Diffuser: A Hybrid Approach. Engineering Applications of Computational Fluid Mechanics, 2010, 4, 415-424.	1.5	6
125	Towards Developing Intelligent Autonomous Systems in Psychiatry: Its Present State and Future Possibilities. Studies in Computational Intelligence, 2010, , 143-166.	0.7	6
126	A Novel Restart Strategy for Solving Complex Multi-modal Optimization Problems Using Real-Coded Genetic Algorithm. Advances in Intelligent Systems and Computing, 2018, , 32-41.	0.5	6

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127	Optimal Feet-Forcesâ€™ and Torque Distributions of Six-Legged Robot Maneuvering on Various Terrains. Robotica, 2020, 38, 1041-1063.	1.3	6
128	A Locomotion Mode Adaptive Strategy for Real-Time Detection of Gait Events During Negotiating Staircases. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	2.4	6
129	Evolving fuzzy reasoning approach using a novel nature-inspired optimization tool. Expert Systems With Applications, 2021, 170, 114577.	4.4	6
130	Some studies on mapping methods. International Journal of Business Intelligence and Data Mining, 2006, 1, 347.	0.2	5
131	Dynamic Modeling of Energy Efficient Crab Walking of Hexapod Robot. Applied Mechanics and Materials, 0, 110-116, 2730-2739.	0.2	5
132	Modeling and Analysis of Sodium Silicate-Bonded Moulding Sand System Using Design of Experiments and Response Surface Methodology. Journal for Manufacturing Science and Production, 2011, 11, 1-14.	0.1	5
133	Recurrent neural networks to model input-output relationships of metal inert gas (MIG) welding process. International Journal of Data Analysis Techniques and Strategies, 2017, 9, 248.	0.2	5
134	A novel supervisory control scheme to tackle variations in step length for walking with powered ankle prosthesis. Biomedical Signal Processing and Control, 2018, 46, 212-220.	3.5	5
135	Maximizing the Earned Benefit in an Incentivized Social Networking Environment. , 2019, , .		5
136	Earned benefit maximization in social networks under budget constraint. Expert Systems With Applications, 2021, 169, 114346.	4.4	5
137	Inputâ€“Output Modeling and Multi-objective Optimization of Weld Attributes in EBW. Arabian Journal for Science and Engineering, 2021, 46, 4087-4101.	1.7	5
138	A study on determining optimal base location of a serial manipulator mounted on a hexapod mobile robot. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	5
139	Experimental Investigation on Microstructure and Mechanical Properties of Laser-Welded Nb-1% Zr-0.1% C Alloy. Journal of Materials Engineering and Performance, 2021, 30, 8412-8425.	1.2	5
140	Comparative Study of Feed-Forward and Recurrent Neural Networks in Modeling of Electron Beam Welding. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 521-531.	0.4	5
141	Prediction of grinding power and surface finish â€“ a GA-fuzzy approach. Integrated Computer-Aided Engineering, 2004, 11, 373-382.	2.5	4
142	Effects of Welding Parameters on Mechanical Properties in Electron Beam Welded CuCrZr Alloy Plates. IOP Conference Series: Materials Science and Engineering, 2018, 338, 012013.	0.3	4
143	Multi-Objective Optimization and Cluster-Wise Regression Analysis to Establish Inputâ€“Output Relationships of a Process. , 2018, , 299-318.		4
144	Optimal preventive maintenance interval for a Crankshaft balancing machine under reliability constraint using Bonobo Optimizer. Mechanisms and Machine Science, 2019, , 1659-1668.	0.3	4

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145	Meta-Heuristic Algorithms-Tuned Elman vs. Jordan Recurrent Neural Networks for Modeling of Electron Beam Welding Process. Neural Processing Letters, 2021, 53, 1647-1663.	2.0	4
146	Correlating the weld-bead's â€˜macro-, micro-featuresâ€™ with the weld-pool's â€˜fluid flowâ€™ for electron beam welded SS 201 plates. International Journal of Mechanical Sciences, 2021, 210, 106734.	3.6	4
147	Neural Network-Based Expert System to Predict the Results of Finite Element Analysis. Advances in Intelligent and Soft Computing, 2006, , 231-240.	0.2	4
148	Gait Planning of Biped Robots Using Soft Computing: An Attempt to Incorporate Intelligence. Studies in Computational Intelligence, 2010, , 57-85.	0.7	4
149	Soft Computing-Based Navigation Schemes for a Real Wheeled Robot Moving Among Static Obstacles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2008, 51, 333-368.	2.0	3
150	Prediction of Weld Bead Profile Using Neural Networks. , 2008, , .		3
151	Inverse dynamics learned gait planner for a two-legged robot moving on uneven terrains using neural networks. International Journal of Advanced Intelligence Paradigms, 2008, 1, 80.	0.2	3
152	A hybrid computing scheme for forward and reverse mappings of metal inert gas welding process. International Journal of Computational Intelligence Studies, 2010, 1, 256.	0.3	3
153	Evolutionary neural networks for strategic bidding in electricity markets. International Journal of Energy Sector Management, 2012, 6, 321-342.	1.2	3
154	Fuzzy Logic-Based Techniques for Modeling the Correlation between the Weld Bead Dimension and the Process Parameters in MIG Welding. International Journal of Manufacturing Engineering, 2013, 2013, 1-17.	0.8	3
155	Fuzzy logic-based group formation control of multiple wheeled robots. , 2016, , .		3
156	A review on applications of soft computing in design and development of intelligent autonomous robots. International Journal of Hybrid Intelligent Systems, 2017, 14, 49-65.	0.9	3
157	Finite Element Analysis to Determine Residual Stress in Electron Beam Welding of CuCrZr alloy Plates and Experimental Validation. Materials Today: Proceedings, 2018, 5, 19321-19329.	0.9	3
158	Design and Analysis of a Novel Lightweight, Energy Economic Powered Knee Orthotic Device. Journal of Medical Devices, Transactions of the ASME, 2019, 13, .	0.4	3
159	Maximizing the earned benefit in an incentivized social networking environment: a community-based approach. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 2539-2555.	3.3	3
160	Towards Intelligent Autonomous Systems. Studies in Computational Intelligence, 2010, , 1-4.	0.7	3
161	Numerical and Experimental Studies on Pulsed Laser Forming of Sheet Metal. Topics in Mining, Metallurgy and Materials Engineering, 2015, , 55-67.	1.4	3
162	A New Search Space Reduction Technique for Genetic Algorithms. Advances in Intelligent Systems and Computing, 2019, , 111-119.	0.5	3

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163	Realizing the Need for Intelligent Optimization Tool. Advances in Computational Intelligence and Robotics Book Series, 2016, , 1-9.	0.4	3
164	Study of micro-porosity in electron beam butt welding. International Journal of Advanced Manufacturing Technology, 2022, 121, 4583-4600.	1.5	3
165	Design of cluster-wise optimal fuzzy logic controllers to model input-output relationships of some manufacturing processes. International Journal of Data Mining, Modelling and Management, 2009, 1, 178.	0.1	2
166	Fuzzy clustering of mechanisms. Sadhana - Academy Proceedings in Engineering Sciences, 2012, 37, 539-556.	0.8	2
167	MODELING OF INPUT-OUTPUT RELATIONSHIPS FOR ELECTRON BEAM BUTT WELDING OF DISSIMILAR MATERIALS USING NEURAL NETWORKS. International Journal of Computational Intelligence and Applications, 2014, 13, 1450016.	0.6	2
168	A review on micro-electron beam welding with a modernized SEM: Process, applications, trends and future prospect. Journal of Micromanufacturing, 2019, 2, 220-225.	0.6	2
169	Study on mechanical performance of laser-welded NiTinol sheet. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, , 095440542093753.	1.5	2
170	Multi-body Dynamic Modeling of Multi-legged Robots. Cognitive Intelligence and Robotics, 2020, , .	0.6	2
171	An approximate marginal spread computation approach for the budgeted influence maximization with delay. Computing (Vienna/New York), 0, , 1.	3.2	2
172	A New Form of Fuzzy Reasoning Tool to Ensure Both Accuracy and Readability. Advances in Intelligent Systems and Computing, 2018, , 54-65.	0.5	2
173	A Critical Study of Bead-on-Plate Laser Welding of Niobium Alloy PWC-11. Lecture Notes in Mechanical Engineering, 2020, , 397-404.	0.3	2
174	Prediction of Power Requirement in Turning using a GA-Fuzzy Approach. , 2002, , 167-178.		2
175	Effect of Amplitude Oscillation on Spiking in Electron Beam Welding of Copper Plate. Lecture Notes in Mechanical Engineering, 2020, , 405-411.	0.3	2
176	Locomotion Modes and Environmental Features Recognition Using Laser Distance Sensors. IEEE Sensors Journal, 2022, 22, 4625-4633.	2.4	2
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