Dilip Kumar Pratihar

List of Publications by Year in Descending Order

198 papers	2,580 citations	28 h-index	39 g-index
214 ext. papers	3,144 ext. citations	3 avg, IF	5.83 L-index

#	Paper	IF	Citations
198	Locomotion Modes and Environmental Features Recognition Using Laser Distance Sensors. *IEEE Sensors Journal*, **2022**, 1-1	4	
197	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	4.2	0
196	Modeling of beam divergence. *Optik*, **2022**, 256, 168747	2.5	0
195	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	2	4
194	A Novel Online Whole-Body Motion Planning Algorithm for Supervisory Control of a Legged Mobile Manipulator. *Journal of the Institution of Engineers (India): Series C*, **2021**, 102, 563	0.9	
193	Evolving fuzzy reasoning approach using a novel nature-inspired optimization tool. *Expert Systems With Applications*, **2021**, 170, 114577	7.8	1
192	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	1.6	0
191	Earned benefit maximization in social networks under budget constraint. *Expert Systems With Applications*, **2021**, 169, 114346	7.8	1
190	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	1.3	8
189	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	5.2	
188	Weld optimisation. *Science and Technology of Welding and Joining*, **2021**, 26, 181-195	3.7	2
187	Solving engineering optimization problems using an improved real-coded genetic algorithm (IRGA) with directional mutation and crossover. *Soft Computing*, **2021**, 25, 5455-5481	3.5	3
186	Input–Output Modeling and Multi-objective Optimization of Weld Attributes in EBW. *Arabian Journal for Science and Engineering*, **2021**, 46, 4087-4101	2.5	0
185	Meta-Heuristic Algorithms-Tuned Elman vs. Jordan Recurrent Neural Networks for Modeling of Electron Beam Welding Process. *Neural Processing Letters*, **2021**, 53, 1647-1663	2.4	1
184	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	5.2	8
183	Correlating the weld-bead's macro-, micro-features with the weld-pool's fluid flow for electron beam welded SS 201 plates. *International Journal of Mechanical Sciences*, **2021**, 210, 106734	5.5	
182	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	2.5	5

181	Real-Time Detection of Actual and Early Gait Events During Level-Ground and Ramp Walking. *IEEE Sensors Journal*, **2020**, 20, 8128-8136	4	16
180	Study on mechanical and metallurgical properties of fiber laser welded Nb-1% Zr-0.1% C alloy. *Optics and Laser Technology*, **2020**, 127, 106153	4.2	7
179	A survey on influence maximization in a social network. *Knowledge and Information Systems*, **2020**, 62, 3417-3455	2.4	49
178	Effect of Amplitude Oscillation on Spiking in Electron Beam Welding of Copper Plate. *Lecture Notes in Mechanical Engineering*, **2020**, 405-411	0.4	0
177	A Study on Micro-tool and Micro-feature Fabrication in Micro-EDM. *Lecture Notes on Multidisciplinary Industrial Engineering*, **2020**, 191-202	0.3	
176	Multi-body Inverse Dynamic Modeling and Analysis of Six-Legged Robots. *Cognitive Intelligence and Robotics*, **2020**, 77-135	0.1	
175	A Critical Study of Bead-on-Plate Laser Welding of Niobium Alloy PWC-11. *Lecture Notes in Mechanical Engineering*, **2020**, 397-404	0.4	1
174	Multi-Legged Robots□A Review. *Cognitive Intelligence and Robotics*, **2020**, 11-32	0.1	3
173	Comparative Study of Feed-Forward and Recurrent Neural Networks in Modeling of Electron Beam Welding. *Lecture Notes on Multidisciplinary Industrial Engineering*, **2020**, 521-531	0.3	2
172	Effects of space charge on weld geometry and cooling rate during electron beam welding of stainless steel. *Optik*, **2020**, 206, 163722	2.5	4
171	Prediction of Step Length Using Neuro-Fuzzy Approach Suitable for Prosthesis Control. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 5658-5665	5.2	3
170	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	4.2	6
169	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	1.7	6
168	Study on mechanical performance of laser-welded NiTinol sheet. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2020**, 095440542093753	2.4	1
167	Multi-objective Bonobo Optimizer (MOBO): an intelligent heuristic for multi-criteria optimization. *Knowledge and Information Systems*, **2020**, 62, 4407-4444	2.4	8
166	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	3.7	2
165	A Geometry Recognition-Based Strategy for Locomotion Transitions Early Prediction of Prosthetic Devices. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 1259-1267	5.2	4
164	A Study to Establish Equivalence of Thermal and Mechanical Loads. *Arabian Journal for Science and Engineering*, **2020**, 45, 631-639	2.5	

163	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	2.5	8
162	Optimal Feet-Forces and Torque Distributions of Six-Legged Robot Maneuvering on Various Terrains. *Robotica*, **2020**, 38, 1041-1063	2.1	1
161	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	4.1	16
160	ComBIM: A community-based solution approach for the Budgeted Influence Maximization Problem. *Expert Systems With Applications*, **2019**, 125, 1-13	7.8	31
159	Optimal preventive maintenance interval for a Crankshaft balancing machine under reliability constraint using Bonobo Optimizer. *Mechanisms and Machine Science*, **2019**, 1659-1668	0.3	1
158	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	1.6	8
157	An optimization-based decision tree approach for predicting slip-trip-fall accidents at work. *Safety Science*, **2019**, 118, 57-69	5.8	36
156	Design and Analysis of a Novel Lightweight, Energy Economic Powered Knee Orthotic Device. *Journal of Medical Devices, Transactions of the ASME*, **2019**, 13,	1.3	1
155	Reporting cell planning-based cellular mobility management using a Binary Artificial Bat algorithm. *Heliyon*, **2019**, 5, e01276	3.6	4
154	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	7.3	12
153	Design and Development of a Six-legged Mobile Manipulator for Education and Research (SiMMER) **2019**,		1
152	A New Search Space Reduction Technique for Genetic Algorithms. *Advances in Intelligent Systems and Computing*, **2019**, 111-119	0.4	2
151	Swarm-Intelligence-Based Computation for Parametric Optimization of Electron Beam Fabrication. *Lecture Notes on Multidisciplinary Industrial Engineering*, **2019**, 153-163	0.3	3
150	Fuzzy Inference System-Based Neuro-Fuzzy Modeling of Electron-Beam Welding. *Lecture Notes on Multidisciplinary Industrial Engineering*, **2019**, 839-850	0.3	2
149	Maximizing the Earned Benefit in an Incentivized Social Networking Environment **2019**,		4
148	A New Bonobo optimizer (BO) for Real-Parameter optimization **2019**,		14
147	A review on micro-electron beam welding with a modernized SEM: Process, applications, trends and future prospect. *Journal of Micromanufacturing*, **2019**, 2, 220-225	1.7	1
146	Study on feet forces' distributions, energy consumption and dynamic stability measure of hexapod robot during crab walking. *Applied Mathematical Modelling*, **2019**, 65, 717-744	4.5	13

145	Study on kinematics and inverse dynamics of legged mobile manipulator for determining feet-terrain reaction forces and joint torques. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2019**, 233, 3117-3136	1.3	1
144	A directional crossover (DX) operator for real parameter optimization using genetic algorithm. *Applied Intelligence*, **2019**, 49, 1841-1865	4.9	15
143	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	6
142	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	1.3	7
141	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	4.9	26
140	An integrated fuzzy multiple criteria supplier selection approach and its application in a welding company. *Journal of Manufacturing Systems*, **2018**, 46, 163-178	9.1	35
139	Multi-sensors data fusion through fuzzy clustering and predictive tools. *Expert Systems With Applications*, **2018**, 107, 165-172	7.8	21
138	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	0.4	5
137	Effects of Welding Parameters on Mechanical Properties in Electron Beam Welded CuCrZr Alloy Plates. *IOP Conference Series: Materials Science and Engineering*, **2018**, 338, 012013	0.4	3
136	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	3.2	19
135	Multi-Objective Optimization and Cluster-Wise Regression Analysis to Establish Input□Output Relationships of a Process **2018**, 299-318		2
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	4.9	4
133	A New Form of Fuzzy Reasoning Tool to Ensure Both Accuracy and Readability. *Advances in Intelligent Systems and Computing*, **2018**, 54-65	0.4	1
132	Detection and quantitative assessment of corrosion on pipelines through image analysis. *Procedia Computer Science*, **2018**, 133, 804-811	1.6	17
131	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	1.4	1
130	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	1.7	7
129	Forward and inverse predictions of deformations in laser forming of shaped surfaces under coupling mechanism. *Journal of Laser Applications*, **2018**, 30, 032011	2.1	7
128	A Direction-Based Exponential Mutation Operator for Real-Coded Genetic Algorithm **2018**,		4

127	Character Recognition Using Entropy-Based Fuzzy C-Means Clustering **2017**, 25-45		
126	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
125	Algorithms for projecting a bipartite network **2017**,		1
124	Properties of a projected network of a bipartite network **2017**,		7
123	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	0.5	3
122	Inverse dynamics learned gait planning of an exoskeleton to negotiate uneven terrains using neural networks. *International Journal of Hybrid Intelligent Systems*, **2016**, 13, 49-62	0.9	
121	Electron Beam Melting of Steel Plates: Temperature Measurement Using Thermocouples and Prediction Through Finite Element Analysis. *Lecture Notes in Mechanical Engineering*, **2016**, 579-588	0.4	7
120	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	3.6	3
119	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	3.5	70
118	Inverse Dynamics and Feet-Terrain Collision Model for Optimal Distribution of the Contact Forces During Crab Motion of a Hexapod Robot. *Lecture Notes in Mechanical Engineering*, **2016**, 85-95	0.4	
117	Study on Inverse Dynamics of Full-Body Powered Pseudo-Anthropomorphic Exoskeleton Using Neural Networks. *Advances in Intelligent Systems and Computing*, **2016**, 295-305	0.4	
116	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	3.2	23
115	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	3.2	17
114	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	7.5	25
113	Realizing the Need for Intelligent Optimization Tool. *Advances in Computational Intelligence and Robotics Book Series*, **2016**, 1-9	0.4	3
112	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	1.6	9
111	Energy-efficient inverse dynamic model of a Hexapod robot **2015**,		6
110	A genetic algorithm based multi-objective shape optimization scheme for cementless femoral implant. *Journal of Biomechanical Engineering*, **2015**, 137,	2.1	17

109	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	1	6
108	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	1.3	13
107	Expert systems in manufacturing processes using soft computing. *International Journal of Advanced Manufacturing Technology*, **2015**, 81, 887-896	3.2	15
106	Towards the optimal design of an uncemented acetabular component using genetic algorithms. *Engineering Optimization*, **2015**, 47, 1587-1601	2	2
105	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	2.5	7
104	Design and development of board cleaning serial manipulator: Board cleaning manipulator **2015**,		1
103	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	1.6	8
102	Numerical and Experimental Studies on Pulsed Laser Forming of Sheet Metal. *Topics in Mining, Metallurgy and Materials Engineering*, **2015**, 55-67	0.4	2
101	Laser forming of a dome shaped surface: Experimental investigations, statistical analysis and neural network modeling. *Optics and Lasers in Engineering*, **2014**, 53, 31-42	4.6	38
100	Optimization of variable demand fuzzy economic order quantity inventory models without and with backordering. *Computers and Industrial Engineering*, **2014**, 78, 148-162	6.4	19
99	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	4.3	26
98	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	1.2	2
97	Knowledge-based systems using neural networks for electron beam welding process of reactive material (Zircaloy-4). *Journal of Intelligent Manufacturing*, **2014**, 25, 1315-1333	6.7	21
96	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	2.9	36
95	Modeling of plasma spray coating process using statistical regression analysis. *International Journal of Advanced Manufacturing Technology*, **2013**, 65, 967-980	3.2	23
94	Finite Element Analysis and Experimental Investigations on Laser Bending of AISI304 Stainless Steel Sheet. *Procedia Engineering*, **2013**, 64, 528-535		10
93	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	1.6	4
92	Analysis and synthesis of laser forming process using neural networks and neuro-fuzzy inference system. *Soft Computing*, **2013**, 17, 849-865	3.5	27

91	Dynamic modeling, stability and energy consumption analysis of a realistic six-legged walking robot. *Robotics and Computer-Integrated Manufacturing*, **2013**, 29, 400-416	9.2	32
90	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	3.6	26
89	Experimental investigations and statistical analysis of pulsed laser bending of AISI 304 stainless steel sheet. *Optics and Laser Technology*, **2013**, 49, 18-27	4.2	41
88	SOME STUDIES ON DATA MINING **2013**, 61-80		
87	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	1.6	3
86	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		1
85	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	7.8	6
84	Effects of turning gait parameters on energy consumption and stability of a six-legged walking robot. *Robotics and Autonomous Systems*, **2012**, 60, 72-82	3.5	56
83	Modeling of input–output relationships for a plasma spray coating process using soft computing tools. *Applied Soft Computing Journal*, **2012**, 12, 3356-3368	7.5	19
82	Identification of flow regimes using conductivity probe signals and neural networks for counter-current gas–liquid two-phase flow. *Chemical Engineering Science*, **2012**, 84, 417-436	4.4	48
81	Fuzzy clustering of mechanisms. *Sadhana - Academy Proceedings in Engineering Sciences*, **2012**, 37, 539-556	1	2
80	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	4.9	6
79	Evolutionary neural networks for strategic bidding in electricity markets. *International Journal of Energy Sector Management*, **2012**, 6, 321-342	2.5	3
78	Tuning of neural networks using particle swarm optimization to model MIG welding process. *Swarm and Evolutionary Computation*, **2011**, 1, 223-235	9.8	55
77	Dynamic modeling and energy consumption analysis of crab walking of a six-legged robot **2011**,		9
76	Study on electron beam butt welding of austenitic stainless steel 304 plates and its input–output modelling using neural networks. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2011**, 225, 2051-2070	2.4	22
75	Genetic algorithm-tuned entropy-based fuzzy C-means algorithm for obtaining distinct and compact clusters. *Fuzzy Optimization and Decision Making*, **2011**, 10, 153-166	5.1	19
74	Three-dimensional finite element analysis of multi-stage hot forming of railway wheels. *International Journal of Advanced Manufacturing Technology*, **2011**, 53, 301-312	3.2	13

73	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	3.2	15
72	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	9.2	25
71	Balanced gait generations of a two-legged robot on sloping surface. *Sadhana - Academy Proceedings in Engineering Sciences*, **2011**, 36, 525-550	1	9
70	Modeling of Electrical Discharge Machining Process Using Conventional Regression Analysis and Genetic Algorithms. *Journal of Materials Engineering and Performance*, **2011**, 20, 1121-1127	1.6	23
69	Optimum stacking pattern for multi-stream plate-fin heat exchanger through a genetic algorithm. *International Journal of Thermal Sciences*, **2011**, 50, 214-224	4.1	39
68	Inverse estimation of location of internal heat source in conduction. *Inverse Problems in Science and Engineering*, **2011**, 19, 337-361	1.3	8
67	Expert system to predict forging load and axial stress. *Applied Soft Computing Journal*, **2011**, 11, 744-753	7.5	12
66	Near-optimal gait generations of a two-legged robot on rough terrains using soft computing. *Robotics and Computer-Integrated Manufacturing*, **2011**, 27, 521-530	9.2	7
65	Dynamic Modeling of Energy Efficient Crab Walking of Hexapod Robot. *Applied Mechanics and Materials*, **2011**, 110-116, 2730-2739	0.3	4
64	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		4
63	Optimum Design of a Two Step Planar Diffuser: A Hybrid Approach. *Engineering Applications of Computational Fluid Mechanics*, **2010**, 4, 415-424	4.5	5
62	Towards Developing Intelligent Autonomous Systems in Psychiatry: Its Present State and Future Possibilities. *Studies in Computational Intelligence*, **2010**, 143-166	0.8	3
61	Reply to Comments on Optimum Design of a Two Step Planar Diffuser: A Hybrid Approach *Engineering Applications of Computational Fluid Mechanics*, **2010**, 4, 624-624	4.5	
60	A hybrid computing scheme for shape optimisation in thermo-fluid problems. *International Journal of Computational Intelligence Studies*, **2010**, 1, 207	0.7	
59	A hybrid computing scheme for forward and reverse mappings of metal inert gas welding process. *International Journal of Computational Intelligence Studies*, **2010**, 1, 256	0.7	2
58	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	0.2	3
57	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	0.5	6
56	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	3.2	21

55	Statistical modeling of psychosis data. *Computer Methods and Programs in Biomedicine*, **2010**, 100, 222-36	6.9	7
54	Dynamically balanced optimal gaits of a ditch-crossing biped robot. *Robotics and Autonomous Systems*, **2010**, 58, 349-361	3.5	22
53	Forward and reverse mappings of electrical discharge machining process using adaptive network-based fuzzy inference system. *Expert Systems With Applications*, **2010**, 37, 8566-8574	7.8	42
52	Towards Intelligent Autonomous Systems. *Studies in Computational Intelligence*, **2010**, 1-4	0.8	3
51	Gait Planning of Biped Robots Using Soft Computing: An Attempt to Incorporate Intelligence. *Studies in Computational Intelligence*, **2010**, 57-85	0.8	1
50	Dynamic Modeling of Energy Efficient Hexapod Robots Locomotion over Gradient Terrains. *Communications in Computer and Information Science*, **2010**, 138-145	0.3	1
49	Hybrid Optimization Scheme for Radial Basis Function Neural Network. *Lecture Notes in Computer Science*, **2010**, 613-622	0.9	1
48	Design and Development of Intelligent Autonomous Robots. *Studies in Computational Intelligence*, **2010**, 29-56	0.8	
47	Modeling of metal inert gas welding process using radial basis function neural networks **2009**,		1
46	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	2.4	12
45	Optimization of bead geometry in electron beam welding using a Genetic Algorithm. *Journal of Materials Processing Technology*, **2009**, 209, 1151-1157	5.3	87
44	A comparative study on some navigation schemes of a real robot tackling moving obstacles. *Robotics and Computer-Integrated Manufacturing*, **2009**, 25, 810-828	9.2	32
43	Soft computing-based gait planners for a dynamically balanced biped robot negotiating sloping surfaces. *Applied Soft Computing Journal*, **2009**, 9, 191-208	7.5	22
42	. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2009**, 39, 381-387		16
41	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	0.2	2
40	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	4.1	21
39	Camera calibration using a genetic algorithm. *Engineering Optimization*, **2008**, 40, 1151-1169	2	10
38	An Approach for 3D Reconstruction of Environment Using Stereo-Vision System **2008**,		1

37	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	0.5	2
36	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	2.9	3
35	Modeling of the MIG welding process using statistical approaches. *International Journal of Advanced Manufacturing Technology*, **2008**, 35, 1166-1190	3.2	31
34	Modeling of TIG welding and abrasive flow machining processes using radial basis function networks. *International Journal of Advanced Manufacturing Technology*, **2008**, 37, 937-952	3.2	21
33	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	1.6	17
32	Developing fuzzy classifiers to predict the chance of occurrence of adult psychoses. *Knowledge-Based Systems*, **2008**, 21, 479-497	7.3	16
31	Forward and reverse mappings in green sand mould system using neural networks. *Applied Soft Computing Journal*, **2008**, 8, 239-260	7.5	40
30	Cluster-wise Design of Takagi and Sugeno Approach of Fuzzy Logic Controller. *Studies in Computational Intelligence*, **2008**, 211-250	0.8	
29	Fuzzy logic-based expert system to predict the results of finite element analysis. *Knowledge-Based Systems*, **2007**, 20, 37-50	7.3	16
28	Modeling of TIG welding process using conventional regression analysis and neural network-based approaches. *Journal of Materials Processing Technology*, **2007**, 184, 56-68	5.3	73
27	Global versus cluster-wise regression analyses for prediction of bead geometry in MIG welding process. *Journal of Materials Processing Technology*, **2007**, 189, 352-366	5.3	40
26	ONLINE DYNAMICALLY BALANCED ASCENDING AND DESCENDING GAIT GENERATIONS OF A BIPED ROBOT USING SOFT COMPUTING. *International Journal of Humanoid Robotics*, **2007**, 04, 777-814	1.2	7
25	DYNAMICALLY BALANCED ASCENDING AND DESCENDING GAITS OF A TWO-LEGGED ROBOT. *International Journal of Humanoid Robotics*, **2007**, 04, 717-751	1.2	18
24	Modelling of input□utput relationships in cement bonded moulding sand system using neural networks. *International Journal of Cast Metals Research*, **2007**, 20, 265-274	1	18
23	Linear and non-linear statistical modelling of green sand mould system. *International Journal of Cast Metals Research*, **2007**, 20, 1-13	1	36
22	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	2.4	23
21	Some studies on fuzzy clustering of psychosis data. *International Journal of Business Intelligence and Data Mining*, **2007**, 2, 143	0.3	13
20	Evolution of Fuzzy Controllers and Applications. *Studies in Computational Intelligence*, **2007**, 47-69	0.8	8

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