Muhammad Saeed Aslam

List of Publications by Year
in descending order

222 papers	8,766 citations	36303 51 h-index	82547 72 g-index
222 all docs	222 docs citations	222 times ranked	1847 citing authors

#	Article	IF	Citations
1	Neuro-heuristics for nonlinear singular Thomas-Fermi systems. Applied Soft Computing Journal, 2018, 65, 152-169.	7.2	176
2	Intelligent and robust prediction of short term wind power using genetic programming based ensemble of neural networks. Energy Conversion and Management, 2017, 134, 361-372.	9.2	173
3	Numerical investigation for rotating flow of MHD hybrid nanofluid with thermal radiation over a stretching sheet. Scientific Reports, 2020, 10, 18533.	3.3	135
4	A new stochastic computing paradigm for the dynamics of nonlinear singular heat conduction model of the human head. European Physical Journal Plus, 2018, 133, 1.	2.6	131
5	Stochastic numerical technique for solving HIV infection model of CD4+ T cells. European Physical Journal Plus, 2020, 135, 1.	2.6	127
6	A stochastic computational intelligent solver for numerical treatment of mosquito dispersal model in a heterogeneous environment. European Physical Journal Plus, 2020, 135, 1.	2.6	126
7	Novel design of Morlet wavelet neural network for solving second order Laneâ€“Emden equation. Mathematics and Computers in Simulation, 2020, 172, 1-14.	4.4	126
8	A Stochastic Intelligent Computing with Neuro-Evolution Heuristics for Nonlinear SITR System of Novel COVID-19 Dynamics. Symmetry, 2020, 12, 1628.	2.2	116
9	A stochastic numerical analysis based on hybrid NAR-RBFs networks nonlinear SITR model for novel COVID-19 dynamics. Computer Methods and Programs in Biomedicine, 2021, 202, 105973.	4.7	113
10	Novel applications of intelligent computing paradigms for the analysis of nonlinear reactive transport model of the fluid in soft tissues and microvessels. Neural Computing and Applications, 2019, 31, 9041-9059.	5.6	112
11	Solution of the one-dimensional Bratu equation arising in the fuel ignition model using ANN optimised with PSO and SQP. Connection Science, 2014, 26, 195-214.	3.0	103
12	An efficient computational intelligence approach for solving fractional order Riccati equations using ANN and SQP. Applied Mathematical Modelling, 2015, 39, 3075-3093.	4.2	103
13	Intelligent computing with Levenbergâ€“Marquardt artificial neural networks for nonlinear system of COVID-19 epidemic model for future generation disease control. European Physical Journal Plus, 2020, 135, 932.	2.6	101
14	Numerical solution of doubly singular nonlinear systems using neural networks-based integrated intelligent computing. Neural Computing and Applications, 2019, 31, 793-812.	5.6	100
15	Neural network methods to solve the Laneâ€“Emden type equations arising in thermodynamic studies of the spherical gas cloud model. Neural Computing and Applications, 2017, 28, 929-944.	5.6	97
16	Nature-inspired computing approach for solving non-linear singular Emdenâ€“Fowler problem arising in electromagnetic theory. Connection Science, 2015, 27, 377-396.	3.0	96
17	Design of unsupervised fractional neural network model optimized with interior point algorithm for solving Bagleyâ€“Torvik equation. Mathematics and Computers in Simulation, 2017, 132, 139-158.	4.4	94
18	A novel design of fractional Meyer wavelet neural networks with application to the nonlinear singular fractional Lane-Emden systems. AEJ - Alexandria Engineering Journal, 2021, 60, 2641-2659.	6.4	92

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19	Neuro-swarm intelligent computing to solve the second-order singular functional differential model. European Physical Journal Plus, 2020, 135, 1.	2.6	88
20	Design of bio-inspired heuristic technique integrated with interior-point algorithm to analyze the dynamics of heartbeat model. Applied Soft Computing Journal, 2017, 52, 605-629.	7.2	87
21	Design of neuro-swarming-based heuristics to solve the third-order nonlinear multi-singular Emdenâ€“Fowler equation. European Physical Journal Plus, 2020, 135, 1.	2.6	87
22	Design of a hybrid NAR-RBFs neural network for nonlinear dusty plasma system. AEJ - Alexandria Engineering Journal, 2020, 59, 3325-3345.	6.4	86
23	Heuristic computing technique for numerical solutions of nonlinear fourth order Emdenâ€“Fowler equation. Mathematics and Computers in Simulation, 2020, 178, 534-548.	4.4	85
24	Numerical Computing Paradigm for Investigation of Micropolar Nanofluid Flow Between Parallel Plates System with Impact of Electrical MHD and Hall Current. Arabian Journal for Science and Engineering, 2021, 46, 645-662.	3.0	84
25	Two-stage fractional least mean square identification algorithm for parameter estimation of CARMA systems. Signal Processing, 2015, 107, 327-339.	3.7	82
26	Integrated computational intelligent paradigm for nonlinear electric circuit models using neural networks, genetic algorithms and sequential quadratic programming. Neural Computing and Applications, 2020, 32, 10337-10357.	5.6	82
27	FMNEICS: fractional Meyer neuro-evolution-based intelligent computing solver for doubly singular multi-fractional order Laneâ€“Emden system. Computational and Applied Mathematics, 2020, 39, 1.	2.2	82
28	Design of artificial neural network models optimized with sequential quadratic programming to study the dynamics of nonlinear Troeschâ€™s problem arising in plasma physics. Neural Computing and Applications, 2018, 29, 83-109.	5.6	81
29	Integrated neuro-swarm heuristic with interior-point for nonlinear SITR model for dynamics of novel COVID-19. AEJ - Alexandria Engineering Journal, 2021, 60, 2811-2824.	6.4	79
30	Stochastic numerical solver for nanofluidic problems containing multi-walled carbon nanotubes. Applied Soft Computing Journal, 2016, 38, 561-586.	7.2	78
31	Design of Mexican Hat Wavelet neural networks for solving Bratu type nonlinear systems. Neurocomputing, 2017, 221, 1-14.	5.9	77
32	Design of stochastic solvers based on genetic algorithms for solving nonlinear equations. Neural Computing and Applications, 2015, 26, 1-23.	5.6	74
33	Fractional neural network models for nonlinear Riccati systems. Neural Computing and Applications, 2019, 31, 359-378.	5.6	74
34	Integrated neuro-evolution-based computing solver for dynamics of nonlinear corneal shape model numerically. Neural Computing and Applications, 2021, 33, 5753-5769.	5.6	74
35	Solution of optimal reactive power dispatch with FACTS devices: A survey. Energy Reports, 2020, 6, 2211-2229.	5.1	73
36	Bio-inspired computing platform for reliable solution of Bratu-type equations arising in the modeling of electrically conducting solids. Applied Mathematical Modelling, 2016, 40, 5964-5977.	4.2	72

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37	A Neuro-Swarming Intelligence-Based Computing for Second Order Singular Periodic Non-linear Boundary Value Problems. Frontiers in Physics, 2020, 8, .	2.1	72
38	Bio-inspired computational heuristics to study Laneâ€“Emden systems arising in astrophysics model. SpringerPlus, 2016, 5, 1866.	1.2	69
39	Neuro-swarm intelligent computing paradigm for nonlinear HIV infection model with CD4+ T-cells. Mathematics and Computers in Simulation, 2021, 188, 241-253.	4.4	69
40	Stochastic numerical treatment for solving Troeschâ€™s problem. Information Sciences, 2014, 279, 860-873.	6.9	68
41	Identification of Hammerstein nonlinear ARMAX systems using nonlinear adaptive algorithms. Nonlinear Dynamics, 2015, 79, 1385-1397.	5.2	66
42	Design of neuro-computing paradigms for nonlinear nanofluidic systems of MHD Jefferyâ€“Hamel flow. Journal of the Taiwan Institute of Chemical Engineers, 2018, 91, 57-85.	5.3	66
43	Neuro-evolutionary computing paradigm for PainlevÃ© equation-II in nonlinear optics. European Physical Journal Plus, 2018, 133, 1.	2.6	65
44	Integrated intelligent computing with neuro-swarming solver for multi-singular fourth-order nonlinear Emdenâ€“Fowler equation. Computational and Applied Mathematics, 2020, 39, 1.	2.2	64
45	Intelligent computing to solve fifth-order boundary value problem arising in induction motor models. Neural Computing and Applications, 2018, 29, 449-466.	5.6	63
46	Heat and mass transfer phenomenon for the dynamics of Casson fluid through porous medium over shrinking wall subject to Lorentz force and heat source/sink. AEJ - Alexandria Engineering Journal, 2021, 60, 1355-1363.	6.4	63
47	Bio-inspired computational heuristics for parameter estimation of nonlinear Hammerstein controlled autoregressive system. Neural Computing and Applications, 2018, 29, 1455-1474.	5.6	62
48	Integrated intelligent computing paradigm for the dynamics of micropolar fluid flow with heat transfer in a permeable walled channel. Applied Soft Computing Journal, 2019, 79, 139-162.	7.2	62
49	Design of multi innovation fractional LMS algorithm for parameter estimation of input nonlinear control autoregressive systems. Applied Mathematical Modelling, 2021, 93, 412-425.	4.2	62
50	A novel study of Morlet neural networks to solve the nonlinear HIV infection system of latently infected cells. Results in Physics, 2021, 25, 104235.	4.1	61
51	Neuro-computing networks for entropy generation under the influence of MHD and thermal radiation. Surfaces and Interfaces, 2021, 25, 101243.	3.0	60
52	Intelligent computing to analyze the dynamics of Magnetohydrodynamic flow over stretchable rotating disk model. Applied Soft Computing Journal, 2018, 67, 8-28.	7.2	57
53	Intelligent computing approach to solve the nonlinear Van der Pol system for heartbeat model. Neural Computing and Applications, 2018, 30, 3651-3675.	5.6	57
54	Numerical Treatments to Analyze the Nonlinear Radiative Heat Transfer in MHD Nanofluid Flow with Solar Energy. Arabian Journal for Science and Engineering, 2020, 45, 4975-4994.	3.0	56

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55	An intelligent computing technique to analyze the vibrational dynamics of rotating electrical machine. Neurocomputing, 2017, 219, 280-299.	5.9	55
56	FRACTIONAL MAYER NEURO-SWARM HEURISTIC SOLVER FOR MULTI-FRACTIONAL ORDER DOUBLY SINGULAR MODEL BASED ON LANEâ€“EMDEN EQUATION. Fractals, 2021, 29, 2140017.	3.7	55
57	Intelligent computing for Mathieuâ€™s systems for parameter excitation, vertically driven pendulum and dusty plasma models. Applied Soft Computing Journal, 2018, 62, 359-372.	7.2	54
58	Numerical Treatment for the Three-Dimensional Eyring-Powell Fluid Flow over a Stretching Sheet with Velocity Slip and Activation Energy. Advances in Mathematical Physics, 2019, 2019, 1-12.	0.8	53
59	Integrated intelligent computing paradigm for nonlinear multi-singular third-order Emdenâ€“Fowler equation. Neural Computing and Applications, 2021, 33, 3417-3436.	5.6	53
60	A new stochastic computing paradigm for nonlinear PainlevÃ© II systems in applications of random matrix theory. European Physical Journal Plus, 2018, 133, 1.	2.6	52
61	A novel design of Gaussian WaveNets for rotational hybrid nanofluidic flow over a stretching sheet involving thermal radiation. International Communications in Heat and Mass Transfer, 2021, 123, 105196.	5.6	52
62	A new numerical approach to solve Thomasâ€“Fermi model of an atom using bio-inspired heuristics integrated with sequential quadratic programming. SpringerPlus, 2016, 5, 1400.	1.2	51
63	Bio-inspired heuristics hybrid with sequential quadratic programming and interior-point methods for reliable treatment of economic load dispatch problem. Neural Computing and Applications, 2019, 31, 447-475.	5.6	48
64	Design of nature-inspired heuristic paradigm for systems in nonlinear electrical circuits. Neural Computing and Applications, 2020, 32, 7121-7137.	5.6	48
65	Design of bio-inspired computational intelligence technique for solving steady thin film flow of Johnsonâ€“Segalman fluid on vertical cylinder for drainage problems. Journal of the Taiwan Institute of Chemical Engineers, 2016, 60, 59-75.	5.3	47
66	Design and application of nature inspired computing approach for nonlinear stiff oscillatory problems. Neural Computing and Applications, 2015, 26, 1763-1780.	5.6	46
67	Heuristic computational design of Morlet wavelet for solving the higher order singular nonlinear differential equations. AEJ - Alexandria Engineering Journal, 2021, 60, 5935-5947.	6.4	46
68	Design of bio-inspired computing technique for nanofluidics based on nonlinear Jefferyâ€“Hamel flow equations. Canadian Journal of Physics, 2016, 94, 474-489.	1.1	45
69	Design of stochastic numerical solver for the solution of singular three-point second-order boundary value problems. Neural Computing and Applications, 2021, 33, 2427-2443.	5.6	45
70	Design of fractional adaptive strategy for input nonlinear Boxâ€“Jenkins systems. Signal Processing, 2015, 116, 141-151.	3.7	44
71	Neuro-heuristic computational intelligence for solving nonlinear pantograph systems. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 464-484.	2.6	44
72	Computational intelligence methodology for the analysis of RC circuit modelled with nonlinear differential order system. Neural Computing and Applications, 2018, 30, 1905-1924.	5.6	44

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73	A new heuristic computational solver for nonlinear singular Thomasâ€“Fermi system using evolutionary optimized cubic splines. European Physical Journal Plus, 2020, 135, 1.	2.6	44
74	A Computational Analysis of Two-Phase Casson Nanofluid Passing a Stretching Sheet Using Chemical Reactions and Gyrotactic Microorganisms. Mathematical Problems in Engineering, 2019, 2019, 1-12.	1.1	43
75	Normalized fractional adaptive methods for nonlinear control autoregressive systems. Applied Mathematical Modelling, 2019, 66, 457-471.	4.2	43
76	An innovative fractional order LMS algorithm for power signal parameter estimation. Applied Mathematical Modelling, 2020, 83, 703-718.	4.2	43
77	Design of evolutionary optimized finite difference based numerical computing for dust density model of nonlinear Van-der Pol Mathieuâ€™s oscillatory systems. Mathematics and Computers in Simulation, 2021, 181, 444-470.	4.4	43
78	Design of fractional hierarchical gradient descent algorithm for parameter estimation of nonlinear control autoregressive systems. Chaos, Solitons and Fractals, 2022, 157, 111913.	5.1	43
79	Meyer wavelet neural networks to solve a novel design of fractional order pantograph Lane-Emden differential model. Chaos, Solitons and Fractals, 2021, 152, 111404.	5.1	42
80	Numerical treatment for solving one-dimensional Bratu problem using neural networks. Neural Computing and Applications, 2014, 24, 549-561.	5.6	41
81	Backtracking search integrated with sequential quadratic programming for nonlinear active noise control systems. Applied Soft Computing Journal, 2018, 73, 666-683.	7.2	41
82	Cattaneo-christov heat flux model of 3D hall current involving biconvection nanofluidic flow with Darcy-Forchheimer law effect: Backpropagation neural networks approach. Case Studies in Thermal Engineering, 2021, 26, 101168.	5.7	41
83	Reliable numerical treatment of nonlinear singular Flierlâ€“Petviashivili equations for unbounded domain using ANN, GAs, and SQP. Applied Soft Computing Journal, 2016, 38, 617-636.	7.2	40
84	A new computing approach for power signal modeling using fractional adaptive algorithms. ISA Transactions, 2017, 68, 189-202.	5.7	40
85	Integrated meta-heuristics finite difference method for the dynamics of nonlinear unipolar electrohydrodynamic pump flow model. Applied Soft Computing Journal, 2020, 97, 106791.	7.2	40
86	Intelligent computing for the dynamics of fluidic system of electrically conducting Ag/Cu nanoparticles with mixed convection for hydrogen possessions. International Journal of Hydrogen Energy, 2021, 46, 4947-4980.	7.1	40
87	Neuro-intelligent networks for Boucâ€“Wen hysteresis model for piezostage actuator. European Physical Journal Plus, 2021, 136, 1.	2.6	40
88	Computational intelligence of Levenberg-Marquardt backpropagation neural networks to study thermal radiation and Hall effects on boundary layer flow past a stretching sheet. International Communications in Heat and Mass Transfer, 2022, 130, 105799.	5.6	39
89	Design of modified fractional adaptive strategies for Hammerstein nonlinear control autoregressive systems. Nonlinear Dynamics, 2015, 82, 1811-1830.	5.2	38
90	Design of Bio-inspired Heuristic Techniques Hybridized with Sequential Quadratic Programming for Joint Parameters Estimation of Electromagnetic Plane Waves. Wireless Personal Communications, 2017, 96, 1475-1494.	2.7	38

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91	Design of fractional swarming strategy for solution of optimal reactive power dispatch. Neural Computing and Applications, 2020, 32, 10501-10518.	5.6	38
92	A sliding-window approximation-based fractional adaptive strategy for Hammerstein nonlinear ARMAX systems. Nonlinear Dynamics, 2017, 87, 519-533.	5.2	37
93	Artificial neural network scheme to solve the nonlinear influenza disease model. Biomedical Signal Processing and Control, 2022, 75, 103594.	5.7	37
94	Bio-inspired heuristics for layer thickness optimization in multilayer piezoelectric transducer for broadband structures. Soft Computing, 2019, 23, 3449-3463.	3.6	36
95	Effects of Gyro-Tactic Organisms in Bio-convective Nano-material with Heat Immersion, Stratification, and Viscous Dissipation. Arabian Journal for Science and Engineering, 2021, 46, 5907-5920.	3.0	35
96	Solving a class of biological HIV infection model of latently infected cells using heuristic approach. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 3611.	1.1	35
97	Integrated Intelligence of Fractional Neural Networks and Sequential Quadratic Programming for Bagleyâ€“Torvik Systems Arising in Fluid Mechanics. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	1.2	35
98	Novel generalization of Volterra LMS algorithm to fractional order with application to system identification. Neural Computing and Applications, 2018, 29, 41-58.	5.6	34
99	Bio-inspired heuristics hybrid with interior-point method for active noise control systems without identification of secondary path. Frontiers of Information Technology and Electronic Engineering, 2018, 19, 246-259.	2.6	34
100	Intelligent networks for crosswise stream nanofluidic model with Cuâ€“H2O over porous stretching medium. International Journal of Hydrogen Energy, 2021, 46, 15322-15336.	7.1	34
101	Hybrid Bio-Inspired Computational Heuristic Paradigm for Integrated Load Dispatch Problems involving Stochastic Wind. Energies, 2019, 12, 2568.	3.1	33
102	Soft computing paradigm for Ferrofluid by exponentially stretched surface in the presence of magnetic dipole and heat transfer. AEJ - Alexandria Engineering Journal, 2022, 61, 1607-1623.	6.4	33
103	Novel application of FO-DPSO for 2-D parameter estimation of electromagnetic plane waves. Neural Computing and Applications, 2019, 31, 3681-3690.	5.6	32
104	Identification of Input Nonlinear Control Autoregressive Systems Using Fractional Signal Processing Approach. Scientific World Journal, The, 2013, 2013, 1-13.	2.1	31
105	Comparison of three unsupervised neural network models for first PainlevÃ© Transcendent. Neural Computing and Applications, 2015, 26, 1055-1071.	5.6	31
106	Design of normalized fractional adaptive algorithms for parameter estimation of control autoregressive autoregressive systems. Applied Mathematical Modelling, 2018, 55, 698-715.	4.2	30
107	DESIGN OF NEURO-SWARMING HEURISTIC SOLVER FOR MULTI-PANTOGRAPH SINGULAR DELAY DIFFERENTIAL EQUATION. Fractals, 2021, 29, 2140022.	3.7	30
108	Design of Backpropagated Intelligent Networks for Nonlinear Second-Order Laneâ€“Emden Pantograph Delay Differential Systems. Arabian Journal for Science and Engineering, 2022, 47, 1197-1210.	3.0	30

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109	A novel design of Gaussian Wavelet Neural Networks for nonlinear Falkner-Skan systems in fluid dynamics. Chinese Journal of Physics, 2021, 72, 386-402.	3.9	30
110	Integrated intelligent computing application for effectiveness of Au nanoparticles coated over MWCNTs with velocity slip in curved channel peristaltic flow. Scientific Reports, 2021, 11, 22550.	3.3	29
111	Adaptive strategies for parameter estimation of Boxâ€“Jenkins systems. IET Signal Processing, 2014, 8, 968-980.	1.5	28
112	Solution of the 2-dimensional Bratu problem using neural network, swarm intelligence and sequential quadratic programming. Neural Computing and Applications, 2014, 25, 1723-1739.	5.6	28
113	Design of fractional-order variants of complex LMS and NLMS algorithms for adaptive channel equalization. Nonlinear Dynamics, 2017, 88, 839-858.	5.2	28
114	Nature-inspired computational intelligence integration with Nelderâ€“Mead method to solve nonlinear benchmark models. Neural Computing and Applications, 2018, 29, 1169-1193.	5.6	28
115	Bio-inspired computational heuristics for Sisko fluid flow and heat transfer models. Applied Soft Computing Journal, 2018, 71, 622-648.	7.2	28
116	Design of hybrid nature-inspired heuristics with application to active noise control systems. Neural Computing and Applications, 2019, 31, 2563-2591.	5.6	28
117	Design of fractional order epidemic model for future generation tiny hardware implants. Future Generation Computer Systems, 2020, 106, 43-54.	7.5	28
118	Intelligent computing through neural networks for numerical treatment of non-Newtonian wire coating analysis model. Scientific Reports, 2021, 11, 9072.	3.3	28
119	Integrated intelligence of neuro-evolution with sequential quadratic programming for second-order Laneâ€“Emden pantograph models. Mathematics and Computers in Simulation, 2021, 188, 87-101.	4.4	28
120	FMNSICS: Fractional Meyer neuro-swarm intelligent computing solver for nonlinear fractional Laneâ€“Emden systems. Neural Computing and Applications, 2022, 34, 4193-4206.	5.6	28
121	Nature-inspired heuristic paradigms for parameter estimation of control autoregressive moving average systems. Neural Computing and Applications, 2019, 31, 5819-5842.	5.6	27
122	Integrated intelligent computing for heat transfer and thermal radiation-based two-phase MHD nanofluid flow model. Neural Computing and Applications, 2020, 32, 2845-2877.	5.6	27
123	Design of sign fractional optimization paradigms for parameter estimation of nonlinear Hammerstein systems. Neural Computing and Applications, 2020, 32, 8381-8399.	5.6	27
124	Neuro-swarms intelligent computing using Gudermannian kernel for solving a class of second order Lane-Emden singular nonlinear model. AIMS Mathematics, 2020, 6, 2468-2485.	1.6	27
125	Design of evolutionary finite difference solver for numerical treatment of computer virus propagation with countermeasures model. Mathematics and Computers in Simulation, 2022, 193, 409-430.	4.4	27
126	Intelligent computing through neural networks for entropy generation in MHD third-grade nanofluid under chemical reaction and viscous dissipation. Waves in Random and Complex Media, 0, , 1-25.	2.7	27

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127	Design of momentum fractional LMS for Hammerstein nonlinear system identification with application to electrically stimulated muscle model. European Physical Journal Plus, 2019, 134, 1.	2.6	26
128	Integrated neuroâ€evolution heuristic with sequential quadratic programming for secondâ€order prediction differential models. Numerical Methods for Partial Differential Equations, 2024, 40, .	3.6	26
129	Design of fractional evolutionary processing for reactive power planning with FACTS devices. Scientific Reports, 2021, 11, 593.	3.3	26
130	Heat transfer between two porous parallel plates of steady nano fludis with Brownian and Thermophoretic effects: A new stochastic numerical approach. International Communications in Heat and Mass Transfer, 2021, 126, 105436.	5.6	26
131	Neuro-intelligent mappings of hybrid hydro-nanofluid Al2O3â€“Cuâ€“H2O model in porous medium over rotating disk with viscous dissolution and Joule heating. International Journal of Hydrogen Energy, 2021, 46, 28298-28326.	7.1	26
132	Stochastic numerical computing with Levenberg-Marquardt backpropagation for performance analysis of heat Sink of functionally graded material of the porous fin. Surfaces and Interfaces, 2021, 26, 101403.	3.0	26
133	Numerical Treatment for Darcy-Forchheimer Flow of Sisko Nanomaterial with Nonlinear Thermal Radiation by Lobatto IIIA Technique. Mathematical Problems in Engineering, 2019, 2019, 1-15.	1.1	25
134	Heat transfer analysis of biological nanofluid flow through ductus efferentes. AIP Advances, 2020, 10, .	1.3	25
135	Evolutionary Integrated Heuristic with Gudermannian Neural Networks for Second Kind of Laneâ€“Emden Nonlinear Singular Models. Applied Sciences (Switzerland), 2021, 11, 4725.	2.5	25
136	A Novel Design of Morlet Wavelet to Solve the Dynamics of Nervous Stomach Nonlinear Model. International Journal of Computational Intelligence Systems, 2022, 15, 1.	2.7	25
137	Application of three unsupervised neural network models to singular nonlinear BVP of transformed 2D Bratu equation. Neural Computing and Applications, 2014, 25, 1585-1601.	5.6	24
138	Design of reduced search space strategy based on integration of Nelderâ€“Mead method and pattern search algorithm with application to economic load dispatch problem. Neural Computing and Applications, 2018, 30, 3693-3705.	5.6	24
139	Design of neuro-evolutionary model for solving nonlinear singularly perturbed boundary value problems. Applied Soft Computing Journal, 2018, 62, 373-394.	7.2	24
140	Robust Active Noise Control Design by Optimal Weighted Least Squares Approach. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3955-3967.	5.4	24
141	Backtracking search optimization heuristics for nonlinear Hammerstein controlled auto regressive auto regressive systems. ISA Transactions, 2019, 91, 99-113.	5.7	24
142	Memetic computing through bio-inspired heuristics integration with sequential quadratic programming for nonlinear systems arising in different physical models. SpringerPlus, 2016, 5, 2063.	1.2	23
143	Numerical simulation for Jeffery-Hamel flow and heat transfer of micropolar fluid based on differential evolution algorithm. AIP Advances, 2018, 8, .	1.3	23
144	APPLICATIONS OF GUDERMANNIAN NEURAL NETWORK FOR SOLVING THE SITR FRACTAL SYSTEM. Fractals, 2021, 29, .	3.7	23

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145	Hierarchical Quasi-Fractional Gradient Descent Method for Parameter Estimation of Nonlinear ARX Systems Using Key Term Separation Principle. Mathematics, 2021, 9, 3302.	2.2	22
146	Modified Volterra LMS algorithm to fractional order for identification of Hammerstein nonâ€linear system. IET Signal Processing, 2017, 11, 975-985.	1.5	21
147	Intelligent Computing with Levenbergâ€“Marquardt Backpropagation Neural Networks for Third-Grade Nanofluid Over a Stretched Sheet with Convective Conditions. Arabian Journal for Science and Engineering, 2022, 47, 8211-8229.	3.0	21
148	Maximum likelihood least squares identification method for active noise control systems with autoregressive moving average noise. Automatica, 2016, 69, 1-11.	5.0	20
149	Parameter estimation for Hammerstein control autoregressive systems using differential evolution. Signal, Image and Video Processing, 2018, 12, 1603-1610.	2.7	20
150	Solution of novel multi-fractional multi-singular Laneâ€“Emden model using the designed FMNEICS. Neural Computing and Applications, 0, , 1.	5.6	20
151	Design of Aquila Optimization Heuristic for Identification of Control Autoregressive Systems. Mathematics, 2022, 10, 1749.	2.2	20
152	Bio-inspired computational heuristics to study the boundary layer flow of the Falkner-Scan system with mass transfer and wall stretching. Applied Soft Computing Journal, 2017, 57, 293-314.	7.2	19
153	Design of normalized fractional SGD computing paradigm for recommender systems. Neural Computing and Applications, 2020, 32, 10245-10262.	5.6	19
154	Application of Shannon Entropy Implementation Into a Novel Fractional Particle Swarm Optimization Gravitational Search Algorithm (FPSOGSA) for Optimal Reactive Power Dispatch Problem. IEEE Access, 2021, 9, 2715-2733.	4.2	19
155	Design of momentum LMS adaptive strategy for parameter estimation of Hammerstein controlled autoregressive systems. Neural Computing and Applications, 2018, 30, 1133-1143.	5.6	18
156	Intelligent Bayesian regularization networks for bio-convective nanofluid flow model involving gyro-tactic organisms with viscous dissipation, stratification and heat immersion. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1508-1530.	3.1	18
157	Dynamical analysis for nanofluid slip rheology with thermal radiation, heat generation/absorption and convective wall properties. AIP Advances, 2018, 8, 075122.	1.3	17
158	Variable Threshold-Based Selective Updating Algorithms in Feed-Forward Active Noise Control Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 782-795.	5.4	17
159	Novel computing paradigms for parameter estimation in power signal models. Neural Computing and Applications, 2020, 32, 6253-6282.	5.6	17
160	Design of neuro-swarming computational solver for the fractional Bagleyâ€“Torvik mathematical model. European Physical Journal Plus, 2022, 137, 245.	2.6	17
161	Generalized pseudo Bayesian algorithms for tracking of multiple model underwater maneuvering target. Applied Acoustics, 2020, 166, 107345.	3.3	16
162	Novel design of artificial ecosystem optimizer for large-scale optimal reactive power dispatch problem with application to Algerian electricity grid. Neural Computing and Applications, 2021, 33, 7467-7490.	5.6	16

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163	A novel application of Lobatto IIIA solver for numerical treatment of mixed convection nanofluidic model. Scientific Reports, 2021, 11, 4452.	3.3	16
164	Dynamics of nonlinear cantilever piezoelectricâ€“mechanical system: An intelligent computational approach. Mathematics and Computers in Simulation, 2022, 196, 88-113.	4.4	16
165	Adaptive Evolutionary Computation for Nonlinear Hammerstein Control Autoregressive Systems with Key Term Separation Principle. Mathematics, 2022, 10, 1001.	2.2	16
166	MHD Hybrid Nanofluid Flow Due to Rotating Disk with Heat Absorption and Thermal Slip Effects: An Application of Intelligent Computing. Coatings, 2021, 11, 1554.	2.6	16
167	Optimization through the Levenbergâ€”Marquardt Backpropagation Method for a Magnetohydrodynamic Squeezing Flow System. Coatings, 2021, 11, 779.	2.6	15
168	Numerical Simulations of Vaccination and Wolbachia on Dengue Transmission Dynamics in the Nonlinear Model. IEEE Access, 2022, 10, 31116-31144.	4.2	15
169	Biologically inspired computing framework for solving two-point boundary value problems using differential evolution. Neural Computing and Applications, 2017, 28, 2165-2179.	5.6	14
170	MHD and heat transfer analyses of a fluid flow through scraped surface heat exchanger by analytical solver. AIP Advances, 2019, 9, .	1.3	14
171	Differential evolution based computation intelligence solver for elliptic partial differential equations. Frontiers of Information Technology and Electronic Engineering, 2019, 20, 1445-1456.	2.6	14
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