

# Muhammad Saeed Aslam

## List of Publications by Year in descending order

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222  
papers

8,766  
citations

36303  
51  
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82547  
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222  
all docs

222  
docs citations

222  
times ranked

1847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated neuro-evolution heuristic with sequential quadratic programming for second-order prediction differential models. Numerical Methods for Partial Differential Equations, 2024, 40, .	3.6	26
2	Novel design of weighted differential evolution for parameter estimation of Hammerstein-Wiener systems. Journal of Advanced Research, 2023, 43, 123-136.	9.5	6
3	Design of Backpropagated Intelligent Networks for Nonlinear Second-Order Lane-Emden Pantograph Delay Differential Systems. Arabian Journal for Science and Engineering, 2022, 47, 1197-1210.	3.0	30
4	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
5	A novel application of integrated grasshopper optimization heuristics for attenuation of noise interferences. Ain Shams Engineering Journal, 2022, 13, 101536.	6.1	4
6	Intelligent Computing with Levenberg-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
7	Supervised Learning Algorithm to Study the Magnetohydrodynamic Flow of a Third Grade Fluid for the Analysis of Wire Coating. Arabian Journal for Science and Engineering, 2022, 47, 7505-7518.	3.0	8
8	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
9	FMNSICS: Fractional Meyer neuro-swarm intelligent computing solver for nonlinear fractional Lane-Emden systems. Neural Computing and Applications, 2022, 34, 4193-4206.	5.6	28
10	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
11	Design of backpropagated neurocomputing paradigm for Stuxnet virus dynamics in control infrastructure. Neural Computing and Applications, 2022, 34, 5771.	5.6	3
12	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
13	Dynamics of nonlinear cantilever piezoelectric-mechanical system: An intelligent computational approach. Mathematics and Computers in Simulation, 2022, 196, 88-113.	4.4	16
14	Endoscopy applications for the second law analysis in hydromagnetic peristaltic nanomaterial rheology. Scientific Reports, 2022, 12, 1580.	3.3	9
15	Novel Adaptive Bayesian Regularization Networks for Peristaltic Motion of a Third-Grade Fluid in a Planar Channel. Mathematics, 2022, 10, 358.	2.2	9
16	Numerical Simulations of Vaccination and Wolbachia on Dengue Transmission Dynamics in the Nonlinear Model. IEEE Access, 2022, 10, 31116-31144.	4.2	15
17	Thin film flow of carreau nanofluid over a stretching surface with magnetic field: Numerical treatment with intelligent computing paradigm. International Journal of Modern Physics B, 2022, 36, .	2.0	7
18	Design of neuro-swarming computational solver for the fractional Bagley-Torvik mathematical model. European Physical Journal Plus, 2022, 137, 245.	2.6	17

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19	GLDERMANNIAN NEURAL NETWORKS TO INVESTIGATE THE LIÅ%NARD DIFFERENTIAL MODEL. Fractals, 2022, 30, .	3.7	6
20	Adaptive Evolutionary Computation for Nonlinear Hammerstein Control Autoregressive Systems with Key Term Separation Principle. Mathematics, 2022, 10, 1001.	2.2	16
21	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
22	Artificial neural network scheme to solve the nonlinear influenza disease model. Biomedical Signal Processing and Control, 2022, 75, 103594.	5.7	37
23	Fuzzy-Evolution Computing Paradigm for Fractional Hammerstein Control Autoregressive Systems. International Journal of Fuzzy Systems, 2022, 24, 2447-2475.	4.0	5
24	Evolutionary Heuristic Computing Paradigm for 2D-DOA Estimation along Circular Array. Wireless Communications and Mobile Computing, 2022, 2022, 1-14.	1.2	0
25	A design of an intelligent computing networks to study impacts of porous dissipation and slip for boundary layer flow along Darcy-Brinkman porous media. International Communications in Heat and Mass Transfer, 2022, 135, 106127.	5.6	9
26	Design of Aquila Optimization Heuristic for Identification of Control Autoregressive Systems. Mathematics, 2022, 10, 1749.	2.2	20
27	Neuro-Computing for Hall Current and MHD Effects on the Flow of Micro-Polar Nano-Fluid Between Two Parallel Rotating Plates. Arabian Journal for Science and Engineering, 2022, 47, 16371-16391.	3.0	12
28	Knacks of neuro-computing to study the unsteady squeezed flow of MHD carbon nanotube with entropy generation. International Communications in Heat and Mass Transfer, 2022, 135, 106140.	5.6	12
29	Novel Fractional Swarming with Key Term Separation for Input Nonlinear Control Autoregressive Systems. Fractal and Fractional, 2022, 6, 348.	3.3	11
30	Intelligent networks knacks for numerical treatment of nonlinear multi-delays SVEIR epidemic systems with vaccination. International Journal of Modern Physics B, 2022, 36, .	2.0	7
31	Design of backtracking search heuristics for parameter estimation of power signals. Neural Computing and Applications, 2021, 33, 1479-1496.	5.6	12
32	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
33	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
34	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
35	Integrated intelligent computing paradigm for nonlinear multi-singular third-order Emdenâ€Fowler equation. Neural Computing and Applications, 2021, 33, 3417-3436.	5.6	53
36	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

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37	Self-adapting variable step size strategies for active noise control systems with acoustic feedback. Automatica, 2021, 123, 109354.	5.0	9
38	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
39	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
40	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
41	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
42	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
43	Design of fractional evolutionary processing for reactive power planning with FACTS devices. Scientific Reports, 2021, 11, 593.	3.3	26
44	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
45	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
46	A novel application of Lobatto IIIA solver for numerical treatment of mixed convection nanofluidic model. Scientific Reports, 2021, 11, 4452.	3.3	16
47	FRACTIONAL MAYER NEURO-SWARM HEURISTIC SOLVER FOR MULTI-FRACTIONAL ORDER DOUBLY SINGULAR MODEL BASED ON LANE'S EMDEN EQUATION. Fractals, 2021, 29, 2140017.	3.7	55
48	DESIGN OF NEURO-SWARMING HEURISTIC SOLVER FOR MULTI-PANTOGRAPH SINGULAR DELAY DIFFERENTIAL EQUATION. Fractals, 2021, 29, 2140022.	3.7	30
49	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
50	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
51	Design of backpropagation networks for bioconvection model in transverse transportation of rheological fluid involving Lorentz force interaction and gyrotactic microorganisms. Journal of the Taiwan Institute of Chemical Engineers, 2021, 121, 276-291.	5.3	14
52	Design of Nonlinear Autoregressive Exogenous Model Based Intelligence Computing for Efficient State Estimation of Underwater Passive Target. Entropy, 2021, 23, 550.	2.2	12
53	Intelligent networks for crosswise stream nanofluidic model with Cu-H <sub>2</sub> O over porous stretching medium. International Journal of Hydrogen Energy, 2021, 46, 15322-15336.	7.1	34
54	Intelligent computing through neural networks for numerical treatment of non-Newtonian wire coating analysis model. Scientific Reports, 2021, 11, 9072.	3.3	28

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55	Neuro-intelligent networks for Boucâ€Wen hysteresis model for piezostage actuator. European Physical Journal Plus, 2021, 136, 1.	2.6	40
56	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
57	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
58	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
59	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
60	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
61	Optimization through the Levenbergâ€Marquardt Backpropagation Method for a Magneto-hydrodynamic Squeezing Flow System. Coatings, 2021, 11, 779.	2.6	15
62	Design of Splineâ€Evolutionary Computing Paradigm for Nonlinear Thin Film Flow Model. Arabian Journal for Science and Engineering, 2021, 46, 9279-9299.	3.0	14
63	Heat transfer between two porous parallel plates of steady nano fluidis with Brownian and Thermophoretic effects: A new stochastic numerical approach. International Communications in Heat and Mass Transfer, 2021, 126, 105436.	5.6	26
64	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
65	Neuro-intelligent mappings of hybrid hydro-nanofluid Al <sub>2</sub> O <sub>3</sub> â€Cuâ€H <sub>2</sub> O 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
66	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
67	APPLICATIONS OF GUDERMANNIAN NEURAL NETWORK FOR SOLVING THE SITR FRACTAL SYSTEM. Fractals, 2021, 29, .	3.7	23
68	Neuro-computing networks for entropy generation under the influence of MHD and thermal radiation. Surfaces and Interfaces, 2021, 25, 101243.	3.0	60
69	MHD Boundary Layer Flow over a Stretching Sheet: A New Stochastic Method. Mathematical Problems in Engineering, 2021, 2021, 1-26.	1.1	12
70	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
71	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
72	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

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73	Intelligent computing technique based supervised learning for squeezing flow model. Scientific Reports, 2021, 11, 19597.	3.3	4
74	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
75	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
76	Fractional LMS and NLMS Algorithms for Line Echo Cancellation. Arabian Journal for Science and Engineering, 2021, 46, 9385-9398.	3.0	13
77	Neuro-Swarm heuristic using interior-point algorithm to solve a third kind of multi-singular nonlinear system. Mathematical Biosciences and Engineering, 2021, 18, 5285-5308.	1.9	8
78	Design of evolutionary cubic spline intelligent solver for nonlinear Painlevé-I transcendent. International Journal of Modern Physics B, 2021, 35, .	2.0	11
79	Fractional Analysis of MHD Boundary Layer Flow over a Stretching Sheet in Porous Medium: A New Stochastic Method. Journal of Function Spaces, 2021, 2021, 1-19.	0.9	8
80	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
81	Design of Gudermannian Neuroswarming to solve the singular Emden–Fowler nonlinear model numerically. Nonlinear Dynamics, 2021, 106, 3199-3214.	5.2	14
82	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
83	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
84	Swarm Intelligence Procedures Using Meyer Wavelets as a Neural Network for the Novel Fractional Order Pantograph Singular System. Fractal and Fractional, 2021, 5, 277.	3.3	7
85	Maximum-Likelihood-Based Adaptive and Intelligent Computing for Nonlinear System Identification. Mathematics, 2021, 9, 3199.	2.2	4
86	Design of nature-inspired heuristic paradigm for systems in nonlinear electrical circuits. Neural Computing and Applications, 2020, 32, 7121-7137.	5.6	48
87	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
88	Novel computing paradigms for parameter estimation in power signal models. Neural Computing and Applications, 2020, 32, 6253-6282.	5.6	17
89	Design of backtracking search optimization paradigm for joint amplitude-angle measurement of sources lying in fraunhofer zone. Measurement: Journal of the International Measurement Confederation, 2020, 149, 106977.	5.0	7
90	Novel Computational Heuristics for Wireless Parameters Estimation in Bistatic Radar systems. Wireless Personal Communications, 2020, 111, 909-927.	2.7	4

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91	Design of sign fractional optimization paradigms for parameter estimation of nonlinear Hammerstein systems. Neural Computing and Applications, 2020, 32, 8381-8399.	5.6	27
92	Design of fractional swarming strategy for solution of optimal reactive power dispatch. Neural Computing and Applications, 2020, 32, 10501-10518.	5.6	38
93	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
94	Design of normalized fractional SGD computing paradigm for recommender systems. Neural Computing and Applications, 2020, 32, 10245-10262.	5.6	19
95	Design of fractional order epidemic model for future generation tiny hardware implants. Future Generation Computer Systems, 2020, 106, 43-54.	7.5	28
96	A New Computing Paradigm for Off-Grid Direction of Arrival Estimation Using Compressive Sensing. Wireless Communications and Mobile Computing, 2020, 2020, 1-9.	1.2	4
97	A New Fractional Particle Swarm Optimization with Entropy Diversity Based Velocity for Reactive Power Planning. Entropy, 2020, 22, 1112.	2.2	14
98	A Stochastic Intelligent Computing with Neuro-Evolution Heuristics for Nonlinear Sitr System of Novel COVID-19 Dynamics. Symmetry, 2020, 12, 1628.	2.2	116
99	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
100	Solution of optimal reactive power dispatch with FACTS devices: A survey. Energy Reports, 2020, 6, 2211-2229.	5.1	73
101	Dynamics of inclined magnetic field effects on micropolar Casson fluid with Lobatto IIIA numerical solver. AIP Advances, 2020, 10, 065023.	1.3	9
102	Intelligent computing with Levenberg–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
103	A Neuro-Swarming Intelligence-Based Computing for Second Order Singular Periodic Non-linear Boundary Value Problems. Frontiers in Physics, 2020, 8, .	2.1	72
104	Integrated intelligent computing with neuro-swarming solver for multi-singular fourth-order nonlinear Emden–Fowler equation. Computational and Applied Mathematics, 2020, 39, 1.	2.2	64
105	FMNEICS: fractional Meyer neuro-evolution-based intelligent computing solver for doubly singular multi-fractional order Lane–Emden system. Computational and Applied Mathematics, 2020, 39, 1.	2.2	82
106	Numerical investigation for rotating flow of MHD hybrid nanofluid with thermal radiation over a stretching sheet. Scientific Reports, 2020, 10, 18533.	3.3	135
107	Performance Analysis of Bayesian Filtering and Smoothing Algorithms for Underwater Passive Target Tracking. Journal of Control, Automation and Electrical Systems, 2020, 31, 1400-1411.	2.0	3
108	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



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109	Design of neuro-swarming-based heuristics to solve the third-order nonlinear multi-singular Emden–Fowler equation. European Physical Journal Plus, 2020, 135, 1.	2.6	87
110	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
111	Stochastic numerical technique for solving HIV infection model of CD4+ T cells. European Physical Journal Plus, 2020, 135, 1.	2.6	127
112	Design of a hybrid NAR-RBFs neural network for nonlinear dusty plasma system. AEJ - Alexandria Engineering Journal, 2020, 59, 3325-3345.	6.4	86
113	Neuro-swarm intelligent computing to solve the second-order singular functional differential model. European Physical Journal Plus, 2020, 135, 1.	2.6	88
114	Heat transfer analysis of biological nanofluid flow through ductus efferentes. AIP Advances, 2020, 10, .	1.3	25
115	Integrated Swarming Computing Paradigm for Efficient Estimation of Channel Parameters in MIMO System. Wireless Personal Communications, 2020, 115, 77-102.	2.7	2
116	Heuristic computing technique for numerical solutions of nonlinear fourth order Emden–Fowler equation. Mathematics and Computers in Simulation, 2020, 178, 534-548.	4.4	85
117	A new heuristic computational solver for nonlinear singular Thomas–Fermi system using evolutionary optimized cubic splines. European Physical Journal Plus, 2020, 135, 1.	2.6	44
118	Novel design of Morlet wavelet neural network for solving second order Lane–Emden equation. Mathematics and Computers in Simulation, 2020, 172, 1-14.	4.4	126
119	Design of meta-heuristic computing paradigms for Hammerstein identification systems in electrically stimulated muscle models. Neural Computing and Applications, 2020, 32, 12469-12497.	5.6	12
120	Generalized pseudo Bayesian algorithms for tracking of multiple model underwater maneuvering target. Applied Acoustics, 2020, 166, 107345.	3.3	16
121	An innovative fractional order LMS algorithm for power signal parameter estimation. Applied Mathematical Modelling, 2020, 83, 703-718.	4.2	43
122	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
123	Integrated Intelligence of Fractional Neural Networks and Sequential Quadratic Programming for Bagley–Torvik Systems Arising in Fluid Mechanics. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	1.2	35
124	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
125	A novel application of kernel adaptive filtering algorithms for attenuation of noise interferences. Neural Computing and Applications, 2019, 31, 9221-9240.	5.6	12
126	Study of Algorithms for Wind Direction Retrieval from X-Band Marine Radar Images. Electronics (Switzerland), 2019, 8, 764.	3.1	4



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127	Hybrid Bio-Inspired Computational Heuristic Paradigm for Integrated Load Dispatch Problems involving Stochastic Wind. <i>Energies</i> , 2019, 12, 2568.	3.1	33
128	MHD and heat transfer analyses of a fluid flow through scraped surface heat exchanger by analytical solver. <i>AIP Advances</i> , 2019, 9, .	1.3	14
129	Analysis of MHD and heat transfer effects with variable viscosity through ductus efferentes. <i>AIP Advances</i> , 2019, 9, 085320.	1.3	12
130	A novel application of breadth first algorithm for achieving collision free memory mapping. <i>PLoS ONE</i> , 2019, 14, e0219490.	2.5	1
131	Design of momentum fractional LMS for Hammerstein nonlinear system identification with application to electrically stimulated muscle model. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	26
132	Numerical Treatment for Darcy-Forchheimer Flow of Sisko Nanomaterial with Nonlinear Thermal Radiation by Lobatto IIIA Technique. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-15.	1.1	25
133	Numerical Treatment for the Three-Dimensional Eyring-Powell Fluid Flow over a Stretching Sheet with Velocity Slip and Activation Energy. <i>Advances in Mathematical Physics</i> , 2019, 2019, 1-12.	0.8	53
134	Novel applications of intelligent computing paradigms for the analysis of nonlinear reactive transport model of the fluid in soft tissues and microvessels. <i>Neural Computing and Applications</i> , 2019, 31, 9041-9059.	5.6	112
135	Robust Active Noise Control Design by Optimal Weighted Least Squares Approach. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019, 66, 3955-3967.	5.4	24
136	Integrated intelligent computing paradigm for the dynamics of micropolar fluid flow with heat transfer in a permeable walled channel. <i>Applied Soft Computing Journal</i> , 2019, 79, 139-162.	7.2	62
137	Backtracking search optimization heuristics for nonlinear Hammerstein controlled auto regressive auto regressive systems. <i>ISA Transactions</i> , 2019, 91, 99-113.	5.7	24
138	Differential evolution based computation intelligence solver for elliptic partial differential equations. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2019, 20, 1445-1456.	2.6	14
139	Normalized fractional adaptive methods for nonlinear control autoregressive systems. <i>Applied Mathematical Modelling</i> , 2019, 66, 457-471.	4.2	43
140	Variable Threshold-Based Selective Updating Algorithms in Feed-Forward Active Noise Control Systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019, 66, 782-795.	5.4	17
141	Numerical solution of doubly singular nonlinear systems using neural networks-based integrated intelligent computing. <i>Neural Computing and Applications</i> , 2019, 31, 793-812.	5.6	100
142	Numerical treatment of nonlinear singular Flierlâ€Petviashvili systems using neural networks models. <i>Neural Computing and Applications</i> , 2019, 31, 2371-2394.	5.6	11
143	Design of hybrid nature-inspired heuristics with application to active noise control systems. <i>Neural Computing and Applications</i> , 2019, 31, 2563-2591.	5.6	28
144	Fractional Volterra LMS algorithm with application to Hammerstein control autoregressive model identification. <i>Neural Computing and Applications</i> , 2019, 31, 5227-5240.	5.6	11

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145	Nature-inspired heuristic paradigms for parameter estimation of control autoregressive moving average systems. Neural Computing and Applications, 2019, 31, 5819-5842.	5.6	27
146	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
147	Bio-inspired heuristics for layer thickness optimization in multilayer piezoelectric transducer for broadband structures. Soft Computing, 2019, 23, 3449-3463.	3.6	36
148	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
149	Fractional neural network models for nonlinear Riccati systems. Neural Computing and Applications, 2019, 31, 359-378.	5.6	74
150	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
151	Neuro-heuristics for nonlinear singular Thomas-Fermi systems. Applied Soft Computing Journal, 2018, 65, 152-169.	7.2	176
152	Fractional-order algorithms for tracking Rayleigh fading channels. Nonlinear Dynamics, 2018, 92, 1243-1259.	5.2	12
153	Numerical simulation for Jeffery-Hamel flow and heat transfer of micropolar fluid based on differential evolution algorithm. AIP Advances, 2018, 8, .	1.3	23
154	Bio-inspired computational heuristics for parameter estimation of nonlinear Hammerstein controlled autoregressive system. Neural Computing and Applications, 2018, 29, 1455-1474.	5.6	62
155	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
156	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
157	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
158	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
159	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
160	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
161	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
162	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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163	Design of normalized fractional adaptive algorithms for parameter estimation of control autoregressive autoregressive systems. Applied Mathematical Modelling, 2018, 55, 698-715.	4.2	30
164	Design of neuro-evolutionary model for solving nonlinear singularly perturbed boundary value problems. Applied Soft Computing Journal, 2018, 62, 373-394.	7.2	24
165	Intelligent computing for Mathieu's systems for parameter excitation, vertically driven pendulum and dusty plasma models. Applied Soft Computing Journal, 2018, 62, 359-372.	7.2	54
166	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
167	Backtracking search integrated with sequential quadratic programming for nonlinear active noise control systems. Applied Soft Computing Journal, 2018, 73, 666-683.	7.2	41
168	Neuro-evolutionary computing paradigm for Painlevé equation-II in nonlinear optics. European Physical Journal Plus, 2018, 133, 1.	2.6	65
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