

Muhammad Asif Zahoor Raja

List of Publications by Year in descending order

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380
papers

13,044
citations

27035

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75989

78
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383
all docs

383
docs citations

383
times ranked

2914
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, .	2.0	26
2	Design of Morlet wavelet neural network to solve the non-linear influenza disease system. Applied Mathematics and Nonlinear Sciences, 2023, 8, 2033-2048.	0.9	10
3	Dynamics of three-point boundary value problems with Gudermannian neural networks. Evolutionary Intelligence, 2023, 16, 697-709.	2.3	3
4	Novel design of weighted differential evolution for parameter estimation of Hammerstein-Wiener systems. Journal of Advanced Research, 2023, 43, 123-136.	4.4	6
5	MHD Casson Nanofluid in Darcy-Forchheimer Porous Medium in the Presence of Heat Source and Arrhenius Activation Energy: Applications of Neural Networks. International Journal of Modelling and Simulation, 2023, 43, 438-461.	2.3	20
6	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.	1.7	30
7	Computational intelligence approach using Levenberg-Marquardt backpropagation neural networks to solve the fourth-order nonlinear system of Emden-Fowler model. Engineering With Computers, 2022, 38, 2975-2991.	3.5	24
8	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.	3.4	33
9	A novel application of integrated grasshopper optimization heuristics for attenuation of noise interferences. Ain Shams Engineering Journal, 2022, 13, 101536.	3.5	4
10	MISGD: Moving-Information-Based Stochastic Gradient Descent Paradigm for Personalized Fuzzy Recommender Systems. International Journal of Fuzzy Systems, 2022, 24, 686-712.	2.3	9
11	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.	1.7	21
12	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.	1.7	8
13	Supervised neural networks learning algorithm for three dimensional hybrid nanofluid flow with radiative heat and mass fluxes. Ain Shams Engineering Journal, 2022, 13, 101573.	3.5	34
14	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.	2.4	27
15	FMNSICS: Fractional Meyer neuro-swarm intelligent computing solver for nonlinear fractional Lane-Emden systems. Neural Computing and Applications, 2022, 34, 4193-4206.	3.2	28
16	Intelligent supervised learning for viscous fluid submerged in water based carbon nanotubes with irreversibility concept. International Communications in Heat and Mass Transfer, 2022, 130, 105790.	2.9	21
17	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.	2.9	39
18	Numerical investigations of the nonlinear smoke model using the Gudermannian neural networks. Mathematical Biosciences and Engineering, 2022, 19, 351-370.	1.0	44

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19	Designing of Morlet wavelet as a neural network for a novel prevention category in the HIV system. International Journal of Biomathematics, 2022, 15, .	1.5	20
20	Solving an Infectious Disease Model considering Its Anatomical Variables with Stochastic Numerical Procedures. Journal of Healthcare Engineering, 2022, 2022, 1-12.	1.1	14
21	Design of backpropagated neurocomputing paradigm for Stuxnet virus dynamics in control infrastructure. Neural Computing and Applications, 2022, 34, 5771.	3.2	3
22	A Novel Design of Morlet Wavelet to Solve the Dynamics of Nervous Stomach Nonlinear Model. International Journal of Computational Intelligence Systems, 2022, 15, 1.	1.6	25
23	A Neuro-Evolution Heuristic Using Active-Set Techniques to Solve a Novel Nonlinear Singular Prediction Differential Model. Fractal and Fractional, 2022, 6, 29.	1.6	19
24	Artificial intelligence knacks-based stochastic paradigm to study the dynamics of plant virus propagation model with impact of seasonality and delays. European Physical Journal Plus, 2022, 137, 144.	1.2	24
25	Dynamics of nonlinear cantilever piezoelectricâ€mechanical system: An intelligent computational approach. Mathematics and Computers in Simulation, 2022, 196, 88-113.	2.4	16
26	An Advance Computing Numerical Heuristic of Nonlinear SIR Dengue Fever System Using the Morlet Wavelet Kernel. Journal of Healthcare Engineering, 2022, 2022, 1-14.	1.1	6
27	Endoscopy applications for the second law analysis in hydromagnetic peristaltic nanomaterial rheology. Scientific Reports, 2022, 12, 1580.	1.6	9
28	Novel Adaptive Bayesian Regularization Networks for Peristaltic Motion of a Third-Grade Fluid in a Planar Channel. Mathematics, 2022, 10, 358.	1.1	9
29	Applications of neural networks for the novel designed of nonlinear fractional seventh order singular system. European Physical Journal: Special Topics, 2022, 231, 1831-1845.	1.2	15
30	Numerical Simulations of Vaccination and Wolbachia on Dengue Transmission Dynamics in the Nonlinear Model. IEEE Access, 2022, 10, 31116-31144.	2.6	15
31	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, .	1.0	7
32	Nonlinear Dynamics of Nervous Stomach Model Using Supervised Neural Networks. Computers, Materials and Continua, 2022, 72, 1627-1644.	1.5	1
33	A computational framework to solve the nonlinear dengue fever SIR system. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 1821-1834.	0.9	10
34	Design of neuro-swarming computational solver for the fractional Bagleyâ€Torvik mathematical model. European Physical Journal Plus, 2022, 137, 245.	1.2	17
35	Numerical treatment on the new fractional-order SIDARTHE COVID-19 pandemic differential model via neural networks. European Physical Journal Plus, 2022, 137, 334.	1.2	17
36	Backpropagated Intelligent Networks for the Entropy Generation and Joule Heating in Hydromagnetic Nanomaterial Rheology Over Surface with Variable Thickness. Arabian Journal for Science and Engineering, 2022, 47, 7753-7777.	1.7	17

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37	An advanced computing scheme for the numerical investigations of an infection-based fractional-order nonlinear prey-predator system. PLoS ONE, 2022, 17, e0265064.	1.1	15
38	A Numerical Study of the Fractional Order Dynamical Nonlinear Susceptible Infected and Quarantine Differential Model Using the Stochastic Numerical Approach. Fractal and Fractional, 2022, 6, 139.	1.6	21
39	GUIDERMANNIAN NEURAL NETWORKS TO INVESTIGATE THE LIÅ%NARD DIFFERENTIAL MODEL. Fractals, 2022, 30, .	1.8	6
40	Numerical Investigations of the Fractional-Order Mathematical Model Underlying Immune-Chemotherapeutic Treatment for Breast Cancer Using the Neural Networks. Fractal and Fractional, 2022, 6, 184.	1.6	14
41	Adaptive Evolutionary Computation for Nonlinear Hammerstein Control Autoregressive Systems with Key Term Separation Principle. Mathematics, 2022, 10, 1001.	1.1	16
42	The design of intelligent networks for entropy generation in Ree-Eyring dissipative fluid flow system along quartic autocatalysis chemical reactions. International Communications in Heat and Mass Transfer, 2022, 133, 105971.	2.9	56
43	An advance artificial neural network scheme to examine the waste plastic management in the ocean. AIP Advances, 2022, 12, .	0.6	7
44	Design of fractional hierarchical gradient descent algorithm for parameter estimation of nonlinear control autoregressive systems. Chaos, Solitons and Fractals, 2022, 157, 111913.	2.5	43
45	Artificial neural network scheme to solve the nonlinear influenza disease model. Biomedical Signal Processing and Control, 2022, 75, 103594.	3.5	37
46	Study of 3-D Prandtl Nanofluid Flow over a Convectively Heated Sheet: A Stochastic Intelligent Technique. Coatings, 2022, 12, 24.	1.2	8
47	Fuzzy-Evolution Computing Paradigm for Fractional Hammerstein Control Autoregressive Systems. International Journal of Fuzzy Systems, 2022, 24, 2447-2475.	2.3	5
48	Design of Mayer Wavelet Neural Networks for Solving Functional Nonlinear Singular Differential Equation. Mathematical Problems in Engineering, 2022, 2022, 1-11.	0.6	2
49	Evolutionary Heuristic Computing Paradigm for 2D-DOA Estimation along Circular Array. Wireless Communications and Mobile Computing, 2022, 2022, 1-14.	0.8	0
50	Hall effect on MHD Jeffrey fluid flow with Cattaneoâ€“Christov heat flux model: an application of stochastic neural computing. Complex & Intelligent Systems, 2022, 8, 5177-5201.	4.0	16
51	Knacks of Fractional Order Swarming Intelligence for Parameter Estimation of Harmonics in Electrical Systems. Mathematics, 2022, 10, 1570.	1.1	12
52	Further analysis of double-diffusive flow of nanofluid through a porous medium situated on an inclined plane: AI-based Levenbergâ€“Marquardt scheme with backpropagated neural network. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	0.8	12
53	Fuzzy-weighted differential evolution computing paradigm for fractional order nonlinear wiener systems. Chaos, Solitons and Fractals, 2022, 159, 112160.	2.5	10
54	Intelligent neuro-computing for entropy generated Darcyâ€“Forchheimerâ€“ mixed convective fluid flow. Mathematics and Computers in Simulation, 2022, 201, 193-214.	2.4	12

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55	A hybrid swarming computing approach to solve the biological nonlinear Leptospirosis system. Biomedical Signal Processing and Control, 2022, 77, 103789.	3.5	27
56	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.	2.9	9
57	Generalized fractional strategy for recommender systems with chaotic ratings behavior. Chaos, Solitons and Fractals, 2022, 160, 112204.	2.5	12
58	Design of Aquila Optimization Heuristic for Identification of Control Autoregressive Systems. Mathematics, 2022, 10, 1749.	1.1	20
59	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.	1.7	12
60	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.	2.9	12
61	Numerical treatment for the nonlinear fifth kind of multi-singular differential model: a neuro-swarming approach. Physica Scripta, 2022, 97, 075203.	1.2	0
62	A hybrid computing approach to design the novel second order singular perturbed delay differential Lane-Emden model. Physica Scripta, 2022, 97, 085002.	1.2	5
63	Novel Fractional Swarming with Key Term Separation for Input Nonlinear Control Autoregressive Systems. Fractal and Fractional, 2022, 6, 348.	1.6	11
64	A design of predictive computational network for transmission model of Lassa fever in Nigeria. Results in Physics, 2022, 39, 105713.	2.0	12
65	Fractional memetic computing paradigm for reactive power management involving wind-load chaos and uncertainties. Chaos, Solitons and Fractals, 2022, 161, 112285.	2.5	12
66	A numerical simulation of the fractional order Leptospirosis model using the supervise neural network. AEJ - Alexandria Engineering Journal, 2022, 61, 12431-12441.	3.4	33
67	Impact of thermal energy on MHD Casson fluid through a Forchheimer porous medium with inclined non-linear surface: A soft computing approach. AEJ - Alexandria Engineering Journal, 2022, 61, 12211-12228.	3.4	16
68	Intelligent networks knacks for numerical treatment of nonlinear multi-delays SVEIR epidemic systems with vaccination. International Journal of Modern Physics B, 2022, 36, .	1.0	7
69	High-Resolution Direction of Arrival Estimation of Underwater Multitargets Using Swarming Intelligence of Flower Pollination Heuristics. Shock and Vibration, 2022, 2022, 1-16.	0.3	2
70	Fractional order Lorenz based physics informed SARFIMA-NARX model to monitor and mitigate megacities air pollution. Chaos, Solitons and Fractals, 2022, 161, 112375.	2.5	15
71	Design of backtracking search heuristics for parameter estimation of power signals. Neural Computing and Applications, 2021, 33, 1479-1496.	3.2	12
72	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.	1.7	84

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73	Design of stochastic numerical solver for the solution of singular three-point second-order boundary value problems. <i>Neural Computing and Applications</i> , 2021, 33, 2427-2443.	3.2	45
74	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. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 1355-1363.	3.4	63
75	Integrated intelligent computing paradigm for nonlinear multi-singular third-order Emden-Fowler equation. <i>Neural Computing and Applications</i> , 2021, 33, 3417-3436.	3.2	53
76	Design of evolutionary optimized finite difference based numerical computing for dust density model of nonlinear Van-der Pol Mathieu's oscillatory systems. <i>Mathematics and Computers in Simulation</i> , 2021, 181, 444-470.	2.4	43
77	Novel design of artificial ecosystem optimizer for large-scale optimal reactive power dispatch problem with application to Algerian electricity grid. <i>Neural Computing and Applications</i> , 2021, 33, 7467-7490.	3.2	16
78	Intelligent computing for the dynamics of fluidic system of electrically conducting Ag/Cu nanoparticles with mixed convection for hydrogen possessions. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4947-4980.	3.8	40
79	Effects of Gyro-Tactic Organisms in Bio-convective Nano-material with Heat Immersion, Stratification, and Viscous Dissipation. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 5907-5920.	1.7	35
80	Integrated neuro-evolution-based computing solver for dynamics of nonlinear corneal shape model numerically. <i>Neural Computing and Applications</i> , 2021, 33, 5753-5769.	3.2	74
81	Solving a class of biological HIV infection model of latently infected cells using heuristic approach. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2021, 14, 3611.	0.6	35
82	Analytical Treatment for the Dynamics of Second Law Analysis of Jeffery Nanofluid with Convective Heat and Mass Conditions. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 89-96.	0.1	18
83	Flower Pollination Heuristics for Parameter Estimation of Electromagnetic Plane Waves. <i>Computers, Materials and Continua</i> , 2021, 68, 2529-2543.	1.5	3
84	Design of fractional evolutionary processing for reactive power planning with FACTS devices. <i>Scientific Reports</i> , 2021, 11, 593.	1.6	26
85	IoT Technology Enabled Heuristic Model With Morlet Wavelet Neural Network for Numerical Treatment of Heterogeneous Mosquito Release Ecosystem. <i>IEEE Access</i> , 2021, 9, 132897-132913.	2.6	21
86	Design of Morlet Wavelet Neural Network for Solving a Class of Singular Pantograph Nonlinear Differential Models. <i>IEEE Access</i> , 2021, 9, 77845-77862.	2.6	45
87	Intelligent Bayesian regularization networks for bio-convective nanofluid flow model involving gyro-tactic organisms with viscous dissipation, stratification and heat immersion. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1508-1530.	1.5	18
88	Analysis of Williamson nanofluid with velocity and thermal slips past over a stretching sheet by Lobatto IIIA numerically. <i>Thermal Science</i> , 2021, 25, 2795-2805.	0.5	7
89	Application of Shannon Entropy Implementation Into a Novel Fractional Particle Swarm Optimization Gravitational Search Algorithm (FPSOGSA) for Optimal Reactive Power Dispatch Problem. <i>IEEE Access</i> , 2021, 9, 2715-2733.	2.6	19
90	Effects of Variable Transport Properties on Heat and Mass Transfer in MHD Bioconvective Nanofluid Rheology with Gyrotactic Microorganisms: Numerical Approach. <i>Coatings</i> , 2021, 11, 231.	1.2	49

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91	A novel application of Lobatto IIIA solver for numerical treatment of mixed convection nanofluidic model. <i>Scientific Reports</i> , 2021, 11, 4452.	1.6	16
92	Evolutionary computing for nonlinear singular boundary value problems using neural network, genetic algorithm and active-set algorithm. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	39
93	FRACTIONAL MAYER NEURO-SWARM HEURISTIC SOLVER FOR MULTI-FRACTIONAL ORDER DOUBLY SINGULAR MODEL BASED ON LANE’S EMDEN EQUATION. <i>Fractals</i> , 2021, 29, 2140017.	1.8	55
94	DESIGN OF NEURO-SWARMING HEURISTIC SOLVER FOR MULTI-PANTOGRAPH SINGULAR DELAY DIFFERENTIAL EQUATION. <i>Fractals</i> , 2021, 29, 2140022.	1.8	30
95	Computational intelligence of Levenberg-Marquardt backpropagation neural networks to study the dynamics of expanding/contracting cylinder for Cross magneto-nanofluid flow model. <i>Physica Scripta</i> , 2021, 96, 055219.	1.2	21
96	A novel design of fractional Meyer wavelet neural networks with application to the nonlinear singular fractional Lane-Emden systems. <i>AJ - Alexandria Engineering Journal</i> , 2021, 60, 2641-2659.	3.4	92
97	A novel design of Gaussian WaveNets for rotational hybrid nanofluidic flow over a stretching sheet involving thermal radiation. <i>International Communications in Heat and Mass Transfer</i> , 2021, 123, 105196.	2.9	52
98	Computational Intelligent Paradigms to Solve the Nonlinear SIR System for Spreading Infection and Treatment Using Levenberg’s Marquardt Backpropagation. <i>Symmetry</i> , 2021, 13, 618.	1.1	16
99	Heat Transfer in Nanomaterial Suspension (CuO and Al ₂ O ₃) Using KKL Model. <i>Coatings</i> , 2021, 11, 417.	1.2	21
100	Design of backpropagation networks for bioconvection model in transverse transportation of rheological fluid involving Lorentz force interaction and gyrotactic microorganisms. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 121, 276-291.	2.7	14
101	Design of Nonlinear Autoregressive Exogenous Model Based Intelligence Computing for Efficient State Estimation of Underwater Passive Target. <i>Entropy</i> , 2021, 23, 550.	1.1	12
102	Numerical Treatment for Dynamics of Second Law Analysis and Magnetic Induction Effects on Ciliary Induced Peristaltic Transport of Hybrid Nanomaterial. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	39
103	Intelligent networks for crosswise stream nanofluidic model with Cu-H ₂ O over porous stretching medium. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 15322-15336.	3.8	34
104	Intelligent computing through neural networks for numerical treatment of non-Newtonian wire coating analysis model. <i>Scientific Reports</i> , 2021, 11, 9072.	1.6	28
105	Neuro-intelligent networks for Boussinesq hysteresis model for piezostage actuator. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	40
106	A stochastic numerical analysis based on hybrid NAR-RBFs networks nonlinear SITR model for novel COVID-19 dynamics. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 202, 105973.	2.6	113
107	Design of multi innovation fractional LMS algorithm for parameter estimation of input nonlinear control autoregressive systems. <i>Applied Mathematical Modelling</i> , 2021, 93, 412-425.	2.2	62
108	Evolutionary Integrated Heuristic with Gudermannian Neural Networks for Second Kind of Lane’s Emden Nonlinear Singular Models. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4725.	1.3	25

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109	Backpropagation of Levenberg Marquardt artificial neural networks for wire coating analysis in the bath of Sisko fluid. <i>Ain Shams Engineering Journal</i> , 2021, 12, 4133-4143.	3.5	22
110	Design of intelligent computing networks for numerical treatment of thin film flow of Maxwell nanofluid over a stretched and rotating surface. <i>Surfaces and Interfaces</i> , 2021, 24, 101107.	1.5	37
111	A novel study of Morlet neural networks to solve the nonlinear HIV infection system of latently infected cells. <i>Results in Physics</i> , 2021, 25, 104235.	2.0	61
112	Integrated neuro-swarm heuristic with interior-point for nonlinear Sitr model for dynamics of novel COVID-19. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 2811-2824.	3.4	79
113	Optimization through the Levenberg-Marquardt Backpropagation Method for a Magnetohydrodynamic Squeezing Flow System. <i>Coatings</i> , 2021, 11, 779.	1.2	15
114	Design of moth flame optimization heuristics for integrated power plant system containing stochastic wind. <i>Applied Soft Computing Journal</i> , 2021, 104, 107193.	4.1	24
115	Design of Spline-Evolutionary Computing Paradigm for Nonlinear Thin Film Flow Model. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 9279-9299.	1.7	14
116	Neuro-evolution computing for nonlinear multi-singular system of third order Emden-Fowler equation. <i>Mathematics and Computers in Simulation</i> , 2021, 185, 799-812.	2.4	35
117	Heat transfer between two porous parallel plates of steady nano fluidis with Brownian and Thermophoretic effects: A new stochastic numerical approach. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105436.	2.9	26
118	Role of Agricultural Diversification in Improving Resilience to Climate Change: An Empirical Analysis with Gaussian Paradigm. <i>Sustainability</i> , 2021, 13, 9539.	1.6	17
119	Cattaneo-christov heat flux model of 3D hall current involving biconvection nanofluidic flow with Darcy-Forchheimer law effect: Backpropagation neural networks approach. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101168.	2.8	41
120	Neuro-intelligent mappings of hybrid hydro-nanofluid $Al_2O_3-Cu-H_2O$ model in porous medium over rotating disk with viscous dissolution and Joule heating. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 28298-28326.	3.8	26
121	A novel design of Gaussian Wavelet Neural Networks for nonlinear Falkner-Skan systems in fluid dynamics. <i>Chinese Journal of Physics</i> , 2021, 72, 386-402.	2.0	30
122	APPLICATIONS OF GUDERMANNIAN NEURAL NETWORK FOR SOLVING THE SITR FRACTAL SYSTEM. <i>Fractals</i> , 2021, 29, .	1.8	23
123	State Estimation of an Underwater Markov Chain Maneuvering Target Using Intelligent Computing. <i>Entropy</i> , 2021, 23, 1124.	1.1	6
124	Numerical analysis of 3-D MHD hybrid nanofluid over a rotational disk in presence of thermal radiation with Joule heating and viscous dissipation effects using Lobatto IIIA technique. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 3605-3619.	3.4	94
125	Neuro-computing networks for entropy generation under the influence of MHD and thermal radiation. <i>Surfaces and Interfaces</i> , 2021, 25, 101243.	1.5	60
126	Intelligent Backpropagation Networks with Bayesian Regularization for Mathematical Models of Environmental Economic Systems. <i>Sustainability</i> , 2021, 13, 9537.	1.6	31

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127	Influence of radially magnetic field properties in a peristaltic flow with internal heat generation: Numerical treatment. Case Studies in Thermal Engineering, 2021, 26, 101019.	2.8	44
128	Intelligent computing for the dynamics of entropy optimized nanofluidic system under impacts of MHD along thick surface. International Journal of Modern Physics B, 2021, 35, .	1.0	48
129	MHD Boundary Layer Flow over a Stretching Sheet: A New Stochastic Method. Mathematical Problems in Engineering, 2021, 2021, 1-26.	0.6	12
130	The intelligent networks for double-diffusion and MHD analysis of thin film flow over a stretched surface. Scientific Reports, 2021, 11, 19239.	1.6	15
131	Fractional Dynamics of Stuxnet Virus Propagation in Industrial Control Systems. Mathematics, 2021, 9, 2160.	1.1	26
132	Soft Computing Paradigms to Find the Numerical Solutions of a Nonlinear Influenza Disease Model. Applied Sciences (Switzerland), 2021, 11, 8549.	1.3	6
133	Intelligent numerical computing paradigm for heat transfer effects in a Bodewadt flow. Surfaces and Interfaces, 2021, 26, 101321.	1.5	24
134	Intelligent computing Levenberg Marquardt approach for entropy optimized single-phase comparative study of second grade nanofluidic system. International Communications in Heat and Mass Transfer, 2021, 127, 105544.	2.9	46
135	Integrated intelligence of neuro-evolution with sequential quadratic programming for second-order Lane-Emden pantograph models. Mathematics and Computers in Simulation, 2021, 188, 87-101.	2.4	28
136	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.	1.5	26
137	Neuro-swarm intelligent computing paradigm for nonlinear HIV infection model with CD4+ T-cells. Mathematics and Computers in Simulation, 2021, 188, 241-253.	2.4	69
138	Intelligent computing technique based supervised learning for squeezing flow model. Scientific Reports, 2021, 11, 19597.	1.6	4
139	Meyer wavelet neural networks to solve a novel design of fractional order pantograph Lane-Emden differential model. Chaos, Solitons and Fractals, 2021, 152, 111404.	2.5	42
140	Heuristic computational design of Morlet wavelet for solving the higher order singular nonlinear differential equations. AEJ - Alexandria Engineering Journal, 2021, 60, 5935-5947.	3.4	46
141	Design of wideband tonpiz transducers for underwater SONAR applications with finite element model. Applied Acoustics, 2021, 183, 108293.	1.7	15
142	Weighted differential evolution heuristics for improved multilayer piezoelectric transducer design. Applied Soft Computing Journal, 2021, 113, 107835.	4.1	13
143	Numerical Solutions of a Novel Designed Prevention Class in the HIV Nonlinear Model. CMES - Computer Modeling in Engineering and Sciences, 2021, 129, 227-251.	0.8	5
144	Fractional LMS and NLMS Algorithms for Line Echo Cancellation. Arabian Journal for Science and Engineering, 2021, 46, 9385-9398.	1.7	13

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145	Flower Pollination Heuristics for Nonlinear Active Noise Control Systems. <i>Computers, Materials and Continua</i> , 2021, 67, 815-834.	1.5	4
146	Neuro-Swarm heuristic using interior-point algorithm to solve a third kind of multi-singular nonlinear system. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 5285-5308.	1.0	8
147	Performance Analysis of Efficient Computing Techniques for Direction of Arrival Estimation of Underwater Multi Targets. <i>IEEE Access</i> , 2021, 9, 33284-33298.	2.6	17
148	A numerical approach for 2-D Sutterby fluid-flow bounded at a stagnation point with an inclined magnetic field and thermal radiation impacts. <i>Thermal Science</i> , 2021, 25, 1975-1987.	0.5	43
149	Numerical Study of the Environmental and Economic System through the Computational Heuristic Based on Artificial Neural Networks. <i>Sensors</i> , 2021, 21, 6567.	2.1	7
150	Artificial Neural Networks to Solve the Singular Model with Neumann-Robin, Dirichlet and Neumann Boundary Conditions. <i>Sensors</i> , 2021, 21, 6498.	2.1	7
151	A novel mathematical modeling with solution for movement of fluid through ciliary caused metachronal waves in a channel. <i>Scientific Reports</i> , 2021, 11, 20601.	1.6	11
152	Nanomaterial migration due to magnetic field through a porous region utilizing numerical modeling. <i>Chemical Physics Letters</i> , 2021, 785, 139162.	1.2	2
153	Design of evolutionary cubic spline intelligent solver for nonlinear Painlevé-I transcendent. <i>International Journal of Modern Physics B</i> , 2021, 35, .	1.0	11
154	Ohmic heating effects and entropy generation for nanofluidic system of Ree-Eyring fluid: Intelligent computing paradigm. <i>International Communications in Heat and Mass Transfer</i> , 2021, 129, 105683.	2.9	86
155	Fractional Analysis of MHD Boundary Layer Flow over a Stretching Sheet in Porous Medium: A New Stochastic Method. <i>Journal of Function Spaces</i> , 2021, 2021, 1-19.	0.4	8
156	Optimal coordination of directional overcurrent relays using hybrid fractional computing with gravitational search strategy. <i>Energy Reports</i> , 2021, 7, 7504-7519.	2.5	14
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