

Sadiq M Sait

List of Publications by Year in descending order

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112
papers

4,079
citations

109321

35
h-index

133252

59
g-index

113
all docs

113
docs citations

113
times ranked

2680
citing authors

#	ARTICLE	IF	CITATIONS
1	FPGA-Based Accelerators of Deep Learning Networks for Learning and Classification: A Review. IEEE Access, 2019, 7, 7823-7859.	4.2	303
2	A Survey of Rate-Optimal Power Domain NOMA With Enabling Technologies of Future Wireless Networks. IEEE Communications Surveys and Tutorials, 2020, 22, 2192-2235.	39.4	234
3	Estimating marine plastic pollution from COVID-19 face masks in coastal regions. Marine Pollution Bulletin, 2021, 168, 112419.	5.0	161
4	Significance of nonlinear thermal radiation in 3D Eyring-Powell nanofluid flow with Arrhenius activation energy. Journal of Thermal Analysis and Calorimetry, 2021, 143, 929-944.	3.6	142
5	A hybrid investigation on numerical and analytical solutions of electro-magnetohydrodynamics flow of nanofluid through porous media with entropy generation. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 834-854.	2.8	128
6	A Comparative Study of Metaheuristic Algorithms for Reliability-Based Design Optimization Problems. Archives of Computational Methods in Engineering, 2021, 28, 1853-1869.	10.2	126
7	Numerical Simulation and Mathematical Modeling of Electro-Osmotic Couette-Poiseuille Flow of MHD Power-Law Nanofluid with Entropy Generation. Symmetry, 2019, 11, 1038.	2.2	124
8	A novel hybrid Harris hawks-simulated annealing algorithm and RBF-based metamodel for design optimization of highway guardrails. Materialpruefung/Materials Testing, 2020, 62, 251-260.	2.2	107
9	A new hybrid Harris hawks-Nelder-Mead optimization algorithm for solving design and manufacturing problems. Materialpruefung/Materials Testing, 2019, 61, 735-743.	2.2	98
10	Enhanced grasshopper optimization algorithm using elite opposition-based learning for solving real-world engineering problems. Engineering With Computers, 2022, 38, 4207-4219.	6.1	94
11	Seagull optimization algorithm for solving real-world design optimization problems. Materialpruefung/Materials Testing, 2020, 62, 640-644.	2.2	88
12	Peristaltic Pumping of Nanofluids through a Tapered Channel in a Porous Environment: Applications in Blood Flow. Symmetry, 2019, 11, 868.	2.2	85
13	Comparison of the political optimization algorithm, the Archimedes optimization algorithm and the Levy flight algorithm for design optimization in industry. Materialpruefung/Materials Testing, 2021, 63, 356-359.	2.2	85
14	Robust design of a robot gripper mechanism using new hybrid grasshopper optimization algorithm. Expert Systems, 2021, 38, e12666.	4.5	83
15	Conceptual comparison of the ecogeography-based algorithm, equilibrium algorithm, marine predators algorithm and slime mold algorithm for optimal product design. Materialpruefung/Materials Testing, 2021, 63, 336-340.	2.2	80
16	The Harris hawks, grasshopper and multi-verse optimization algorithms for the selection of optimal machining parameters in manufacturing operations. Materialpruefung/Materials Testing, 2019, 61, 725-733.	2.2	74
17	Enhancement of heat transfer in peristaltic flow in a permeable channel under induced magnetic field using different CNTs. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1277-1291.	3.6	73
18	Channel Modelling and Performance Limits of Vehicular Visible Light Communication Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 6891-6901.	6.3	72

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19	The Henry gas solubility optimization algorithm for optimum structural design of automobile brake components. <i>Materialpruefung/Materials Testing</i> , 2020, 62, 261-264.	2.2	72
20	Butterfly optimization algorithm for optimum shape design of automobile suspension components. <i>Materialpruefung/Materials Testing</i> , 2020, 62, 365-370.	2.2	69
21	Role of hybrid nanoparticles in thermal performance of peristaltic flow of Eyringâ€“Powell fluid model. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1021-1035.	3.6	63
22	Developing and evaluating a stand-alone hybrid energy system for Rohingya refugee community in Bangladesh. <i>Energy</i> , 2020, 191, 116568.	8.8	62
23	Binary particle swarm optimization (BPSO) based state assignment for area minimization of sequential circuits. <i>Applied Soft Computing Journal</i> , 2013, 13, 4832-4840.	7.2	56
24	A new chaotic Lévy flight distribution optimization algorithm for solving constrained engineering problems. <i>Expert Systems</i> , 2022, 39, .	4.5	53
25	Modeling and simulations of CoVID-19 molecular mechanism induced by cytokines storm during SARS-CoV2 infection. <i>Journal of Molecular Liquids</i> , 2021, 327, 114863.	4.9	50
26	Sinusoidal motion of small particles through a Darcy-Brinkman-Forchheimer microchannel filled with non-Newtonian fluid under electro-osmotic forces. <i>Journal of Taibah University for Science</i> , 2021, 15, 514-529.	2.5	50
27	Cuckoo search based resource optimization of datacenters. <i>Applied Intelligence</i> , 2016, 44, 489-506.	5.3	49
28	Dufour and Soret effects on Darcy-Forchheimer flow of second-grade fluid with the variable magnetic field and thermal conductivity. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 4331-4347.	2.8	48
29	Estimation of the healthcare waste generation during COVID-19 pandemic in Bangladesh. <i>Science of the Total Environment</i> , 2022, 811, 152295.	8.0	48
30	Mathematical Analysis on an Asymmetrical Wavy Motion of Blood under the Influence Entropy Generation with Convective Boundary Conditions. <i>Symmetry</i> , 2020, 12, 102.	2.2	47
31	Effects of Magnetohydrodynamics Flow on Multilayer Coatings of Newtonian and Non-Newtonian Fluids through Porous Inclined Rotating Channel. <i>Coatings</i> , 2022, 12, 430.	2.6	45
32	Electromagnetic Flow of SWCNT/MWCNT Suspensions in Two Immiscible Water- and Engine-Oil-Based Newtonian Fluids through Porous Media. <i>Symmetry</i> , 2022, 14, 406.	2.2	43
33	A study on exergetic efficiency vis-À-vis sustainability of industrial sector in Bangladesh. <i>Journal of Cleaner Production</i> , 2019, 231, 297-306.	9.3	39
34	Energy, exergy and sustainability analyses of Bangladeshâ€™s power generation sector. <i>Energy Reports</i> , 2020, 6, 868-878.	5.1	37
35	Comparison of the arithmetic optimization algorithm, the slime mold optimization algorithm, the marine predators algorithm, the salp swarm algorithm for real-world engineering applications. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 448-452.	2.2	37
36	Applications of Metaheuristics in Reservoir Computing Techniques: A Review. <i>IEEE Access</i> , 2018, 6, 58012-58029.	4.2	36

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37	Integrating sustainability analysis with sectoral exergy analysis: A case study of rural residential sector of Bangladesh. <i>Energy and Buildings</i> , 2019, 202, 109397.	6.7	34
38	Hydrodynamics Interactions of Metachronal Waves on Particulate-Liquid Motion through a Ciliated Annulus: Application of Bio-Engineering in Blood Clotting and Endoscopy. <i>Symmetry</i> , 2020, 12, 532.	2.2	33
39	Hunger games search algorithm for global optimization of engineering design problems. <i>Materialpruefung/Materials Testing</i> , 2022, 64, 524-532.	2.2	33
40	Is the commercial sector of Bangladesh sustainable? â€“ Viewing via an exergetic approach. <i>Journal of Cleaner Production</i> , 2019, 228, 544-556.	9.3	32
41	Natural convection nanofluid flow with heat transfer analysis of carbon nanotubesâ€“water nanofluid inside a vertical truncated wavy cone. <i>Mathematical Methods in the Applied Sciences</i> , 2023, 46, 11303-11321.	2.3	32
42	Buoyancy Driven Flow with Gas-Liquid Coatings of Peristaltic Bubbly Flow in Elastic Walls. <i>Coatings</i> , 2020, 10, 115.	2.6	30
43	Reliable Recurrence Algorithm for High-Order Krawtchouk Polynomials. <i>Entropy</i> , 2021, 23, 1162.	2.2	29
44	A new hybrid artificial hummingbird-simulated annealing algorithm to solve constrained mechanical engineering problems. <i>Materialpruefung/Materials Testing</i> , 2022, 64, 1043-1050.	2.2	29
45	Energy, Exergy, and Sustainability Analyses of the Agricultural Sector in Bangladesh. <i>Sustainability</i> , 2020, 12, 4447.	3.2	28
46	A case study to application of exergy-based indicators to address the sustainability of Bangladesh residential sector. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 37, 100615.	2.7	25
47	On the fractional-order model of HIV-1 infection of CD4 ⁺ T-cells under the influence of antiviral drug treatment. <i>Journal of Taibah University for Science</i> , 2020, 14, 50-59.	2.5	24
48	Thermal and concentration convection in nanofluids for peristaltic flow of magneto couple stress fluid in a nonuniform channel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 2203.	3.6	24
49	Visible Light Communication for Connected Vehicles: How to Achieve the Omnidirectional Coverage?. <i>IEEE Access</i> , 2021, 9, 103885-103905.	4.2	24
50	Topology design of switched enterprise networks using a fuzzy simulated evolution algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2002, 15, 327-340.	8.1	22
51	Optimal design of planetary gear train for automotive transmissions using advanced meta-heuristics. <i>International Journal of Vehicle Design</i> , 2019, 80, 121.	0.3	22
52	Influence of heat transfer on MHD Carreau fluid flow due to motile cilia in a channel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 2317-2326.	3.6	22
53	Infrastructure-to-Vehicle Visible Light Communications: Channel Modelling and Performance Analysis. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 2240-2250.	6.3	22
54	An Improved Grasshopper Optimization Algorithm Based Echo State Network for Predicting Faults in Airplane Engines. <i>IEEE Access</i> , 2020, 8, 159773-159789.	4.2	21

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55	Optimal design of planetary gear train for automotive transmissions using advanced meta-heuristics. International Journal of Vehicle Design, 2019, 80, 121.	0.3	20
56	Heat transmission in Darcy-Forchheimer flow of Sutterby nanofluid containing gyrotactic microorganisms. International Journal of Numerical Methods for Heat and Fluid Flow, 2023, 33, 135-152.	2.8	20
57	Assessing the Theoretical Prospects of Bioethanol Production as a Biofuel from Agricultural Residues in Bangladesh: A Review. Sustainability, 2020, 12, 8583.	3.2	19
58	Heat transfer analysis of tangent hyperbolic nanofluid in a ciliated tube with entropy generation. Journal of Thermal Analysis and Calorimetry, 2021, 144, 2337.	3.6	18
59	Dynamical analysis of the delayed immune response to cancer. Results in Physics, 2021, 26, 104282.	4.1	17
60	Cell assignment in hybrid CMOS/nanodevices architecture using Tabu Search. Applied Intelligence, 2014, 40, 1-12.	5.3	15
61	Joint bit and power loading for adaptive MIMO OFDM VLC systems. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3850.	3.9	15
62	Magnetized Jeffrey nanofluid with energy loss in between an annular part of two micro non-concentric pipes. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 8314-8333.	2.3	14
63	An energy-efficient cuckoo search algorithm for virtual machine placement in cloud computing data centers. Journal of Supercomputing, 2021, 77, 13330-13357.	3.6	14
64	Mechanical engineering design optimisation using novel adaptive differential evolution algorithm. International Journal of Vehicle Design, 2019, 80, 285.	0.3	14
65	Fast Overlapping Block Processing Algorithm for Feature Extraction. Symmetry, 2022, 14, 715.	2.2	14
66	State assignment for area minimization of sequential circuits based on cuckoo search optimization. Computers and Electrical Engineering, 2015, 44, 13-23.	4.8	13
67	A New Heuristic for the Data Clustering Problem. IEEE Access, 2017, 5, 6801-6812.	4.2	13
68	Energy and exergy assessment with updated Reistad estimates: A case study in the transportation sector of Bangladesh. Energy Science and Engineering, 2021, 9, 1349-1358.	4.0	13
69	Hybrid Taguchi-Lévy flight distribution optimization algorithm for solving real-world design optimization problems. Materialpruefung/Materials Testing, 2021, 63, 547-551.	2.2	13
70	Multi-objective optimal path selection in electric vehicles. Artificial Life and Robotics, 2012, 17, 113-122.	1.2	12
71	Resource Allocation for Visible Light Communication Systems Using Simulated Annealing Based on a Problem-Specific Neighbor Function. IEEE Access, 2019, 7, 64077-64091.	4.2	12
72	Multi constrained Route Optimization for Electric Vehicles using SimE. , 2011, , .		11

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73	A novel hybrid marine predators-Nelder-Mead optimization algorithm for the optimal design of engineering problems. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 453-457.	2.2	11
74	Energetic sustainability analysis of industrial furnace: a case study. <i>Environmental Science and Pollution Research</i> , 2021, 28, 12881-12888.	5.3	10
75	Prediction Using Cuckoo Search Optimized Echo State Network. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 9769-9778.	3.0	9
76	Deep Reinforcement Based Power Allocation for the Max-Min Optimization in Non-Orthogonal Multiple Access. <i>IEEE Access</i> , 2020, 8, 211235-211247.	4.2	9
77	A comparative analysis of the queuing search algorithm, the sine-cosine algorithm, the ant lion algorithm to determine the optimal weight design problem of a spur gear drive system. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 442-447.	2.2	9
78	Transport of Jeffrey fluid in a rectangular slit of the microchannel under the effect of uniform reabsorption and a porous medium. <i>Communications in Theoretical Physics</i> , 2021, 73, 115003.	2.5	9
79	FSM State-Encoding for Area and Power Minimization Using Simulated Evolution Algorithm. <i>Journal of Applied Research and Technology</i> , 2012, 10, .	0.9	9
80	A Game Theory-Based Heuristic for the Two-Dimensional VLSI Global Routing Problem. <i>Journal of Circuits, Systems and Computers</i> , 2015, 24, 1550082.	1.5	8
81	Concentration gradients of turbulent flows of viscous fluid in a multi-chambered reactor: Application of solar energy system in oil industry. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101140.	2.7	8
82	Engineering Simulated Evolution for Virtual Machine Assignment Problem. <i>Applied Intelligence</i> , 2015, 43, 296-307.	5.3	7
83	Optimization of constrained mechanical design problems using the equilibrium optimization algorithm. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 552-559.	2.2	7
84	Forecasting the action of CAR-T cells against SARS-corona virus-II infection with branching process. <i>Modeling Earth Systems and Environment</i> , 2022, 8, 3413-3421.	3.4	7
85	Artificial intelligence to link environmental endocrine disruptors (EEDs) with bone diseases. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2022, 13, .	1.4	7
86	Evaluating Parallel Simulated Evolution Strategies for VLSI Cell Placement. <i>Mathematical Modelling and Algorithms</i> , 2007, 6, 433-454.	0.5	6
87	Cell Assignment in Hybrid CMOS/Nanodevices Architecture Using a PSO/SA Hybrid Algorithm. <i>Journal of Applied Research and Technology</i> , 2013, 11, 653-664.	0.9	6
88	A stochastic evolution algorithm based 2D VLSI global router. <i>The Integration VLSI Journal</i> , 2016, 53, 115-125.	2.1	6
89	Engineering a Memetic Algorithm from Discrete Cuckoo Search and Tabu Search for Cell Assignment of Hybrid Nanoscale CMOL Circuits. <i>Journal of Circuits, Systems and Computers</i> , 2016, 25, 1650023.	1.5	6
90	Deep Q-Learning Based Optimization of VLC Systems With Dynamic Time-Division Multiplexing. <i>IEEE Access</i> , 2020, 8, 120375-120387.	4.2	6

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91	Memory-efficient Genetic Algorithm for Path Optimization in Embedded Systems. IPSJ Online Transactions, 2013, 6, 28-36.	0.1	5
92	Metachronal propulsion of non-Newtonian viscoelastic mucus in an axisymmetric tube with ciliated walls. Communications in Theoretical Physics, 2021, 73, 035006.	2.5	5
93	FxP-QNet: A Post-Training Quantizer for the Design of Mixed Low-Precision DNNs With Dynamic Fixed-Point Representation. IEEE Access, 2022, 10, 30202-30231.	4.2	5
94	Simulated evolution for timing and low power VLSI standard cell placement. Engineering Applications of Artificial Intelligence, 2003, 16, 407-423.	8.1	4
95	Novel Design of Collaborative Automation Platform Using Real-Time Data Distribution Service Middleware for an Optimum Process Control Environment. Journal of Circuits, Systems and Computers, 2016, 25, 1650063.	1.5	4
96	Optimal multi-dimensional vector bin packing using simulated evolution. Journal of Supercomputing, 2017, 73, 5516-5538.	3.6	4
97	Effect of Wiring and Cabling Topologies on the Performance of Distributed MIMO OFDM VLC Systems. IEEE Access, 2019, 7, 52743-52754.	4.2	4
98	A novel hybrid water wave optimization algorithm for solving complex constrained engineering problems. Materialpruefung/Materials Testing, 2021, 63, 560-564.	2.2	4
99	Energy-Efficient Coverage Enhancement of Indoor THz-MISO Systems: An FD-NOMA Approach. , 2021, , .		3
100	Efficient algorithm for Weinberger array folding. International Journal of Electronics, 1990, 69, 509-518.	1.4	2
101	Novel Design of Heterogeneous Automation Controller Based on Real-Time Data Distribution Service Middleware to Avoid Obsolescence Challenges. Journal of Circuits, Systems and Computers, 2016, 25, 1650111.	1.5	2
102	Engineering simulated evolution for integrated power optimization in data centers. Soft Computing, 2018, 22, 3033-3048.	3.6	2
103	On the Achievable Max-Min User Rates in Multi-Carrier Centralized NOMA-VLC Networks. Sensors, 2021, 21, 3705.	3.8	2
104	Design of a programmable length FIFO memory and its controller. International Journal of Electronics, 1988, 65, 923-932.	1.4	1
105	Finding Multi-Objective Shortest Paths Using Memory-Efficient Stochastic Evolution Based Algorithm. , 2012, , .		1
106	Hybrid spotted hyenaâ€Nelder-Mead optimization algorithm for selection of optimal machining parameters in grinding operations. Materialpruefung/Materials Testing, 2021, 63, 293-298.	2.2	1
107	State machine synthesis with Weinberger arrays. International Journal of Electronics, 1991, 71, 1-12.	1.4	0
108	VLSI design and implementation of systolic tree queues. Microprocessors and Microsystems, 1995, 19, 139-146.	2.8	0

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109	Recent Advances in Mathematical Aspects of Engineering. Symmetry, 2021, 13, 811.	2.2	0
110	Discrete biological modeling for the immune response to dengue virus. International Journal of Modeling, Simulation, and Scientific Computing, 0, , .	1.4	0
111	Modeling and simulation of the IL-36 cytokine and CAR-T cells interplay in cancer onset. International Journal of Modeling, Simulation, and Scientific Computing, 0, , .	1.4	0
112	Genetic algorithm optimization to model business investment in fashion design. International Journal of Management Science and Engineering Management, 2023, 18, 208-216.	3.1	0