

Sadiq M Sait

List of Publications by Year in descending order

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papers

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109321

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docs citations

113
times ranked

2680
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#	ARTICLE	IF	CITATIONS
1	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
2	Genetic algorithm optimization to model business investment in fashion design. <i>International Journal of Management Science and Engineering Management</i> , 2023, 18, 208-216.	3.1	0
3	Heat transmission in Darcy-Forchheimer flow of Sutterby nanofluid containing gyrotactic microorganisms. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2023, 33, 135-152.	2.8	20
4	Magnetized Jeffrey nanofluid with energy loss in between an annular part of two micro non-concentric pipes. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 8314-8333.	2.3	14
5	Enhanced grasshopper optimization algorithm using elite opposition-based learning for solving real-world engineering problems. <i>Engineering With Computers</i> , 2022, 38, 4207-4219.	6.1	94
6	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
7	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
8	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
9	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
10	FxP-QNet: A Post-Training Quantizer for the Design of Mixed Low-Precision DNNs With Dynamic Fixed-Point Representation. <i>IEEE Access</i> , 2022, 10, 30202-30231.	4.2	5
11	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
12	A new chaotic Lévy flight distribution optimization algorithm for solving constrained engineering problems. <i>Expert Systems</i> , 2022, 39, .	4.5	53
13	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
14	Hunger games search algorithm for global optimization of engineering design problems. <i>Materialpruefung/Materials Testing</i> , 2022, 64, 524-532.	2.2	33
15	Fast Overlapping Block Processing Algorithm for Feature Extraction. <i>Symmetry</i> , 2022, 14, 715.	2.2	14
16	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
17	Significance of nonlinear thermal radiation in 3D Eyringâ€“Powell nanofluid flow with Arrhenius activation energy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 929-944.	3.6	142
18	A Comparative Study of Metaheuristic Algorithms for Reliability-Based Design Optimization Problems. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 1853-1869.	10.2	126

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19	Role of hybrid nanoparticles in thermal performance of peristaltic flow of Eyring-Powell fluid model. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1021-1035.	3.6	63
20	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
21	Exergetic sustainability analysis of industrial furnace: a case study. <i>Environmental Science and Pollution Research</i> , 2021, 28, 12881-12888.	5.3	10
22	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
23	Visible Light Communication for Connected Vehicles: How to Achieve the Omnidirectional Coverage?. <i>IEEE Access</i> , 2021, 9, 103885-103905.	4.2	24
24	Metachronal propulsion of non-Newtonian viscoelastic mucus in an axisymmetric tube with ciliated walls. <i>Communications in Theoretical Physics</i> , 2021, 73, 035006.	2.5	5
25	Robust design of a robot gripper mechanism using new hybrid grasshopper optimization algorithm. <i>Expert Systems</i> , 2021, 38, e12666.	4.5	83
26	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
27	Hybrid spotted hyena-Nelder-Mead optimization algorithm for selection of optimal machining parameters in grinding operations. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 293-298.	2.2	1
28	Heat transfer analysis of tangent hyperbolic nanofluid in a ciliated tube with entropy generation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 2337.	3.6	18
29	Conceptual comparison of the ecogeography-based algorithm, equilibrium algorithm, marine predators algorithm and slime mold algorithm for optimal product design. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 336-340.	2.2	80
30	Comparison of the political optimization algorithm, the Archimedes optimization algorithm and the Levy flight algorithm for design optimization in industry. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 356-359.	2.2	85
31	An energy-efficient cuckoo search algorithm for virtual machine placement in cloud computing data centers. <i>Journal of Supercomputing</i> , 2021, 77, 13330-13357.	3.6	14
32	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
33	Recent Advances in Mathematical Aspects of Engineering. <i>Symmetry</i> , 2021, 13, 811.	2.2	0
34	Energy and exergy assessment with updated Reistad estimates: A case study in the transportation sector of Bangladesh. <i>Energy Science and Engineering</i> , 2021, 9, 1349-1358.	4.0	13
35	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
36	On the Achievable Max-Min User Rates in Multi-Carrier Centralized NOMA-VLC Networks. <i>Sensors</i> , 2021, 21, 3705.	3.8	2

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37	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
38	A novel hybrid water wave optimization algorithm for solving complex constrained engineering problems. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 560-564.	2.2	4
39	Optimization of constrained mechanical design problems using the equilibrium optimization algorithm. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 552-559.	2.2	7
40	Hybrid Taguchi-LÃ©vy flight distribution optimization algorithm for solving real-world design optimization problems. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 547-551.	2.2	13
41	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
42	Estimating marine plastic pollution from COVID-19 face masks in coastal regions. <i>Marine Pollution Bulletin</i> , 2021, 168, 112419.	5.0	161
43	Dynamical analysis of the delayed immune response to cancer. <i>Results in Physics</i> , 2021, 26, 104282.	4.1	17
44	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
45	Reliable Recurrence Algorithm for High-Order Krawtchouk Polynomials. <i>Entropy</i> , 2021, 23, 1162.	2.2	29
46	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
47	Energy-Efficient Coverage Enhancement of Indoor THz-MISO Systems: An FD-NOMA Approach. , 2021, , .		3
48	A hybrid investigation on numerical and analytical solutions of electro-magneto hydrodynamics flow of nanofluid through porous media with entropy generation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 834-854.	2.8	128
49	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
50	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
51	Joint bit and power loading for adaptive MIMO OFDM VLC systems. <i>Transactions on Emerging Telecommunications Technologies</i> , 2020, 31, e3850.	3.9	15
52	Enhancement of heat transfer in peristaltic flow in a permeable channel under induced magnetic field using different CNTs. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1277-1291.	3.6	73
53	Developing and evaluating a stand-alone hybrid energy system for Rohingya refugee community in Bangladesh. <i>Energy</i> , 2020, 191, 116568.	8.8	62
54	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

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55	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
56	An Improved Grasshopper Optimization Algorithm Based Echo State Network for Predicting Faults in Airplane Engines. IEEE Access, 2020, 8, 159773-159789.	4.2	21
57	Deep Reinforcement Based Power Allocation for the Max-Min Optimization in Non-Orthogonal Multiple Access. IEEE Access, 2020, 8, 211235-211247.	4.2	9
58	Assessing the Theoretical Prospects of Bioethanol Production as a Biofuel from Agricultural Residues in Bangladesh: A Review. Sustainability, 2020, 12, 8583.	3.2	19
59	Channel Modelling and Performance Limits of Vehicular Visible Light Communication Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 6891-6901.	6.3	72
60	Energy, Exergy, and Sustainability Analyses of the Agricultural Sector in Bangladesh. Sustainability, 2020, 12, 4447.	3.2	28
61	Deep Q-Learning Based Optimization of VLC Systems With Dynamic Time-Division Multiplexing. IEEE Access, 2020, 8, 120375-120387.	4.2	6
62	Buoyancy Driven Flow with Gas-Liquid Coatings of Peristaltic Bubbly Flow in Elastic Walls. Coatings, 2020, 10, 115.	2.6	30
63	On the fractional-order model of HIV-1 infection of CD4 ⁺ T-cells under the influence of antiviral drug treatment. Journal of Taibah University for Science, 2020, 14, 50-59.	2.5	24
64	Hydrodynamics Interactions of Metachronal Waves on Particulate-Liquid Motion through a Ciliated Annulus: Application of Bio-Engineering in Blood Clotting and Endoscopy. Symmetry, 2020, 12, 532.	2.2	33
65	Energy, exergy and sustainability analyses of Bangladesh's power generation sector. Energy Reports, 2020, 6, 868-878.	5.1	37
66	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
67	The Henry gas solubility optimization algorithm for optimum structural design of automobile brake components. Materialpruefung/Materials Testing, 2020, 62, 261-264.	2.2	72
68	Butterfly optimization algorithm for optimum shape design of automobile suspension components. Materialpruefung/Materials Testing, 2020, 62, 365-370.	2.2	69
69	Seagull optimization algorithm for solving real-world design optimization problems. Materialpruefung/Materials Testing, 2020, 62, 640-644.	2.2	88
70	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
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	Prediction Using Cuckoo Search Optimized Echo State Network. Arabian Journal for Science and Engineering, 2019, 44, 9769-9778.	3.0	9

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73	Peristaltic Pumping of Nanofluids through a Tapered Channel in a Porous Environment: Applications in Blood Flow. <i>Symmetry</i> , 2019, 11, 868.	2.2	85
74	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
75	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
76	Effect of Wiring and Cabling Topologies on the Performance of Distributed MIMO OFDM VLC Systems. <i>IEEE Access</i> , 2019, 7, 52743-52754.	4.2	4
77	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
78	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
79	FPGA-Based Accelerators of Deep Learning Networks for Learning and Classification: A Review. <i>IEEE Access</i> , 2019, 7, 7823-7859.	4.2	303
80	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	20
81	Mechanical engineering design optimisation using novel adaptive differential evolution algorithm. <i>International Journal of Vehicle Design</i> , 2019, 80, 285.	0.3	14
82	The Harris hawks, grasshopper and multi-verse optimization algorithms for the selection of optimal machining parameters in manufacturing operations. <i>Materialpruefung/Materials Testing</i> , 2019, 61, 725-733.	2.2	74
83	A new hybrid Harris hawks-Nelder-Mead optimization algorithm for solving design and manufacturing problems. <i>Materialpruefung/Materials Testing</i> , 2019, 61, 735-743.	2.2	98
84	Engineering simulated evolution for integrated power optimization in data centers. <i>Soft Computing</i> , 2018, 22, 3033-3048.	3.6	2
85	Applications of Metaheuristics in Reservoir Computing Techniques: A Review. <i>IEEE Access</i> , 2018, 6, 58012-58029.	4.2	36
86	A New Heuristic for the Data Clustering Problem. <i>IEEE Access</i> , 2017, 5, 6801-6812.	4.2	13
87	Optimal multi-dimensional vector bin packing using simulated evolution. <i>Journal of Supercomputing</i> , 2017, 73, 5516-5538.	3.6	4
88	Novel Design of Heterogeneous Automation Controller Based on Real-Time Data Distribution Service Middleware to Avoid Obsolescence Challenges. <i>Journal of Circuits, Systems and Computers</i> , 2016, 25, 1650111.	1.5	2
89	A stochastic evolution algorithm based 2D VLSI global router. <i>The Integration VLSI Journal</i> , 2016, 53, 115-125.	2.1	6
90	Novel Design of Collaborative Automation Platform Using Real-Time Data Distribution Service Middleware for an Optimum Process Control Environment. <i>Journal of Circuits, Systems and Computers</i> , 2016, 25, 1650063.	1.5	4

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91	Engineering a Memetic Algorithm from Discrete Cuckoo Search and Tabu Search for Cell Assignment of Hybrid Nanoscale CMOL Circuits. Journal of Circuits, Systems and Computers, 2016, 25, 1650023.	1.5	6
92	Cuckoo search based resource optimization of datacenters. Applied Intelligence, 2016, 44, 489-506.	5.3	49
93	Engineering Simulated Evolution for Virtual Machine Assignment Problem. Applied Intelligence, 2015, 43, 296-307.	5.3	7
94	A Game Theory-Based Heuristic for the Two-Dimensional VLSI Global Routing Problem. Journal of Circuits, Systems and Computers, 2015, 24, 1550082.	1.5	8
95	State assignment for area minimization of sequential circuits based on cuckoo search optimization. Computers and Electrical Engineering, 2015, 44, 13-23.	4.8	13
96	Cell assignment in hybrid CMOS/nanodevices architecture using Tabu Search. Applied Intelligence, 2014, 40, 1-12.	5.3	15
97	Binary particle swarm optimization (BPSO) based state assignment for area minimization of sequential circuits. Applied Soft Computing Journal, 2013, 13, 4832-4840.	7.2	56
98	Cell Assignment in Hybrid CMOS/Nanodevices Architecture Using a PSO/SA Hybrid Algorithm. Journal of Applied Research and Technology, 2013, 11, 653-664.	0.9	6
99	Memory-efficient Genetic Algorithm for Path Optimization in Embedded Systems. IPSJ Online Transactions, 2013, 6, 28-36.	0.1	5
100	Multi-objective optimal path selection in electric vehicles. Artificial Life and Robotics, 2012, 17, 113-122.	1.2	12
101	Finding Multi-Objective Shortest Paths Using Memory-Efficient Stochastic Evolution Based Algorithm. , 2012, , .		1
102	FSM State-Encoding for Area and Power Minimization Using Simulated Evolution Algorithm. Journal of Applied Research and Technology, 2012, 10, .	0.9	9
103	Multi constrained Route Optimization for Electric Vehicles using SimE. , 2011, , .		11
104	Evaluating Parallel Simulated Evolution Strategies for VLSI Cell Placement. Mathematical Modelling and Algorithms, 2007, 6, 433-454.	0.5	6
105	Simulated evolution for timing and low power VLSI standard cell placement. Engineering Applications of Artificial Intelligence, 2003, 16, 407-423.	8.1	4
106	Topology design of switched enterprise networks using a fuzzy simulated evolution algorithm. Engineering Applications of Artificial Intelligence, 2002, 15, 327-340.	8.1	22
107	VLSI design and implementation of systolic tree queues. Microprocessors and Microsystems, 1995, 19, 139-146.	2.8	0
108	State machine synthesis with Weinberger arrays. International Journal of Electronics, 1991, 71, 1-12.	1.4	0

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109	Efficient algorithm for Weinberger array folding. International Journal of Electronics, 1990, 69, 509-518.	1.4	2
110	Design of a programmable length FIFO memory and its controller. International Journal of Electronics, 1988, 65, 923-932.	1.4	1
111	Discrete biological modeling for the immune response to dengue virus. International Journal of Modeling, Simulation, and Scientific Computing, 0, , .	1.4	0
112	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