Sadiq Sait

List of Publications by Year
in descending order

206 papers	7,276 citations	94433 37 h-index	66911 78 g-index
207 all docs	207 docs citations	207 times ranked	4673 citing authors

#	Article	IF	Citations
1	Survey on Free Space Optical Communication: A Communication Theory Perspective. IEEE Communications Surveys and Tutorials, 2014, 16, 2231-2258.	39.4	1,606
2	Optical wireless links with spatial diversity over strong atmospheric turbulence channels. IEEE Transactions on Wireless Communications, 2009, 8, 951-957.	9.2	398
3	FPGA-Based Accelerators of Deep Learning Networks for Learning and Classification: A Review. IEEE Access, 2019, 7, 7823-7859.	4.2	303
4	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
5	Channel Modeling and Characterization for Visible Light Communications. IEEE Photonics Journal, 2015, 7, 1-16.	2.0	230
6	6G Wireless Communications Networks: A Comprehensive Survey. IEEE Access, 2021, 9, 148191-148243.	4.2	157
7	Visible Light Communication for Vehicular Networking: Performance Study of a V2V System Using a Measured Headlamp Beam Pattern Model. IEEE Vehicular Technology Magazine, 2015, 10, 45-53.	3.4	138
8	Performance Characterization of Underwater Visible Light Communication. IEEE Transactions on Communications, 2019, 67, 543-552.	7.8	131
9	Evolutionary algorithms, simulated annealing and tabu search: a comparative study. Engineering Applications of Artificial Intelligence, 2001, 14, 167-181.	8.1	127
10	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
11	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
12	IEEE 802.15.7r1 Reference Channel Models for Visible Light Communications. , 2017, 55, 212-217.		122
13	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
14	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
15	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
16	Economic assessment and ranking of wind power potential using fuzzy-TOPSIS approach. Environmental Science and Pollution Research, 2019, 26, 22494-22511.	5.3	88
17	Seagull optimization algorithm for solving real-world design optimization problems. Materialpruefung/Materials Testing, 2020, 62, 640-644.	2.2	88
18	Effect of eddy diffusivity ratio on underwater optical scintillation index. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1969.	1.5	83

#	Article	IF	Citations
19	Robust design of a robot gripper mechanism using new hybrid grasshopper optimization algorithm. Expert Systems, 2021, 38, e12666.	4.5	83
20	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
21	Channel Modelling and Performance Limits of Vehicular Visible Light Communication Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 6891-6901.	6.3	72
22	The Henry gas solubility optimization algorithm for optimum structural design of automobile brake components. Materialpruefung/Materials Testing, 2020, 62, 261-264.	2.2	72
23	Butterfly optimization algorithm for optimum shape design of automobile suspension components. Materialpruefung/Materials Testing, 2020, 62, 365-370.	2.2	69
24	Multi-User Visible Light Communications: State-of-the-Art and Future Directions. IEEE Access, 2018, 6, 70555-70571.	4.2	64
25	<title>Evolutionary algorithms, simulated annealing, and Tabu search: a comparative study</title>., 1998, , .		63
26	Effect of Fog and Rain on the Performance of Vehicular Visible Light Communications. , 2018, , .		59
27	A novel chaotic Henry gas solubility optimization algorithm forÂsolvingÂreal-world engineering problems. Engineering With Computers, 2022, 38, 871-883.	6.1	57
28	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
29	A new chaotic LÃ©vy flight distribution optimization algorithm for solving constrained engineering problems. Expert Systems, 2022, 39, .	4.5	53
30	Sinusoidal motion of small particles through a Darcy-Brinkman-Forchheimer microchannel filled with non-Newtonian fluid under electro-osmotic forces. Journal of Taibah University for Science, 2021, 15, 514-529.	2.5	50
31	Cuckoo search based resource optimization of datacenters. Applied Intelligence, 2016, 44, 489-506.	5.3	49
32	Mathematical Analysis on an Asymmetrical Wavy Motion of Blood under the Influence Entropy Generation with Convective Boundary Conditions. Symmetry, 2020, 12, 102.	2.2	47
33	Effects of Magnetohydrodynamics Flow on Multilayer Coatings of Newtonian and Non-Newtonian Fluids through Porous Inclined Rotating Channel. Coatings, 2022, 12, 430.	2.6	45
34	QoS-driven multicast tree generation using Tabu search. Computer Communications, 2002, 25, 1140-1149.	5.1	44
35	Electromagnetic Flow of SWCNT/MWCNT Suspensions in Two Immiscible Water- and Engine-Oil-Based Newtonian Fluids through Porous Media. Symmetry, 2022, 14, 406.	2.2	43
36	Multi-Hop Coherent Free-Space Optical Communications over Atmospheric Turbulence Channels. IEEE Transactions on Communications, 2011, 59, 1657-1663.	7.8	42

#	Article	IF	Citations
37	GMDH-based networks for intelligent intrusion detection. Engineering Applications of Artificial Intelligence, 2013, 26, 1731-1740.	8.1	41
38	Hybrid RF/VLC Systems: A Comprehensive Survey on Network Topologies, Performance Analyses, Applications, and Future Directions. IEEE Access, 2021, 9, 160402-160436.	4.2	41
39	Controlled access to cloud resources for mitigating Economic Denial of Sustainability (EDoS) attacks. Computer Networks, 2016, 97, 31-47.	5.1	40
40	Link Adaptation for MIMO OFDM Visible Light Communication Systems. IEEE Access, 2017, 5, 26006-26014.	4.2	38
41	Comparison of the arithmetic optimization algorithm, the slime mold optimization algorithm, the marine predators algorithm, the salp swarm algorithm for real-world engineering applications. Materialpruefung/Materials Testing, 2021, 63, 448-452.	2.2	37
42	Applications of Metaheuristics in Reservoir Computing Techniques: A Review. IEEE Access, 2018, 6, 58012-58029.	4.2	36
43	Integrating sustainability analysis with sectoral exergy analysis: A case study of rural residential sector of Bangladesh. Energy and Buildings, 2019, 202, 109397.	6.7	34
44	CoMP-Based Dynamic Handover for Vehicular VLC Networks. IEEE Communications Letters, 2020, 24, 2024-2028.	4.1	33
45	Channel modelling for indoor visible light communications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190187.	3.4	33
46	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
47	Hunger games search algorithm for global optimization of engineering design problems. Materialpruefung/Materials Testing, 2022, 64, 524-532.	2.2	33
48	A Fault Tolerance Technique for Combinational Circuits Based on Selective-Transistor Redundancy. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 224-237.	3.1	32
49	Natural convection nanofluid flow with heat transfer analysis of carbon nanotubes–water nanofluid inside a vertical truncated wavy cone. Mathematical Methods in the Applied Sciences, 2023, 46, 11303-11321.	2.3	32
50	Buoyancy Driven Flow with Gas-Liquid Coatings of Peristaltic Bubbly Flow in Elastic Walls. Coatings, 2020, 10, 115.	2.6	30
51	SLIPT for Underwater Visible Light Communications: Performance Analysis and Optimization. IEEE Transactions on Wireless Communications, 2021, 20, 6715-6728.	9.2	30
52	Reliable Recurrence Algorithm for High-Order Krawtchouk Polynomials. Entropy, 2021, 23, 1162.	2.2	29
53	A new hybrid artificial hummingbird-simulated annealing algorithm to solve constrained mechanical engineering problems. Materialpruefung/Materials Testing, 2022, 64, 1043-1050.	2.2	29
54	Energy, Exergy, and Sustainability Analyses of the Agricultural Sector in Bangladesh. Sustainability, 2020, 12, 4447.	3.2	28

#	Article	IF	Citations
55	Distributed MIMO for Li-Fi: Channel Measurements, Ray Tracing and Throughput Analysis. IEEE Photonics Technology Letters, 2021, 33, 916-919.	2.5	28
56	Multi-constrained route optimization for Electric Vehicles (EVs) using Particle Swarm Optimization (PSO). , 2011, , .		27
57	A Path Loss Model for Vehicle-to-Vehicle Visible Light Communications. , 2019, , .		27
58	E-Commerce in Saudi Arabia: adoption and perspectives. Australasian Journal of Information Systems, 2004, 12, .	0.3	26
59	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
60	Visible Light Communication for Connected Vehicles: How to Achieve the Omnidirectional Coverage?. IEEE Access, 2021, 9, 103885-103905.	4.2	24
61	Finite-SNR Diversity-Multiplexing Tradeoff for Network Coded Cooperative OFDMA Systems. IEEE Transactions on Wireless Communications, 2017, 16, 1385-1396.	9.2	23
62	Channel Modelling for Light Communications: Validation of Ray Tracing by Measurements. , 2020, , .		23
63	Mathematical Analysis of Maxwell Fluid Flow through a Porous Plate Channel Induced by a Constantly Accelerating or Oscillating Wall. Mathematics, 2021, 9, 90.	2.2	23
64	Topology design of switched enterprise networks using a fuzzy simulated evolution algorithm. Engineering Applications of Artificial Intelligence, 2002, 15, 327-340.	8.1	22
65	Optimal design of planetary gear train for automotive transmissions using advanced meta-heuristics. International Journal of Vehicle Design, 2019, 80, 121.	0.3	22
66	Infrastructure-to-Vehicle Visible Light Communications: Channel Modelling and Performance Analysis. IEEE Transactions on Vehicular Technology, 2022, 71, 2240-2250.	6.3	22
67	An Improved Grasshopper Optimization Algorithm Based Echo State Network for Predicting Faults in Airplane Engines. IEEE Access, 2020, 8, 159773-159789.	4.2	21
68	Vehicular VLC: A Ray Tracing Study Based on Measured Radiation Patterns of Commercial Taillights. IEEE Photonics Technology Letters, 2021, 33, 904-907.	2.5	21
69	Underwater Visible Light Communications in Cascaded Gamma-Gamma Turbulence. , 2018, , .		20
70	Utilization of an OLED-Based VLC System in Office, Corridor, and Semi-Open Corridor Environments. Sensors, 2020, 20, 6869.	3.8	20
71	Coverage of a shopping mall with flexible OLED-based visible light communications. Optics Express, 2020, 28, 10015.	3.4	20
72	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

#	Article	IF	Citations
73	Genetic scheduling of task graphs. International Journal of Electronics, 1994, 77, 401-415.	1.4	19
74	Assessing the Theoretical Prospects of Bioethanol Production as a Biofuel from Agricultural Residues in Bangladesh: A Review. Sustainability, 2020, 12, 8583.	3.2	19
75	A Cross-Layer Design for Dynamic Resource Management of VLC Networks. IEEE Transactions on Communications, 2021, 69, 1858-1867.	7.8	19
76	Diversity-Multiplexing Tradeoff for Log-Normal Fading Channels. IEEE Transactions on Communications, 2016, 64, 3119-3129.	7.8	18
77	Unified Resource Allocation and Mobility Management Technique Using Particle Swarm Optimization for VLC Networks. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	17
78	UAV-Based FSO Communications for High Speed Train Backhauling. , 2019, , .		17
79	Simultaneous Lightwave Information and Power Transfer in Underwater Visible Light Communications. , 2019, , .		17
80	Universal AHPL â€" A language for VLSI design automation. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 1986, 2, 8-13.	0.4	16
81	Centralized Light Access Network (C-LiAN): A Novel Paradigm for Next Generation Indoor VLC Networks. IEEE Access, 2017, 5, 19703-19710.	4.2	16
82	Vehicle-to-Vehicle Visible Light Communication: How to select receiver locations for optimal performance?. , 2019, , .		16
83	Vehicular Visible Light Communications: The Impact of Taillight Radiation Pattern. , 2020, , .		16
84	Cell assignment in hybrid CMOS/nanodevices architecture using Tabu Search. Applied Intelligence, 2014, 40, 1-12.	5.3	15
85	Joint bit and power loading for adaptive MIMO OFDM VLC systems. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3850.	3.9	15
86	Experimental Investigation of Lens Combinations on the Performance of Vehicular VLC. , 2020, , .		15
87	A memory efficient stochastic evolution based algorithm for the multi-objective shortest path problem. Applied Soft Computing Journal, 2014, 14, 653-662.	7.2	14
88	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
89	Fast Overlapping Block Processing Algorithm for Feature Extraction. Symmetry, 2022, 14, 715.	2.2	14
90	State assignment for area minimization of sequential circuits based on cuckoo search optimization. Computers and Electrical Engineering, 2015, 44, 13-23.	4.8	13

#	Article	IF	Citations
91	A New Heuristic for the Data Clustering Problem. IEEE Access, 2017, 5, 6801-6812.	4.2	13
92	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
93	Hybrid Taguchi-Lévy flight distribution optimization algorithm for solving real-world design optimization problems. Materialpruefung/Materials Testing, 2021, 63, 547-551.	2.2	13
94	MAC Layer Performance of Multi-Hop Vehicular VLC Networks with CSMA/CA. , 2020, , .		13
95	Scheduling and allocation in high-level synthesis using stochastic techniques. Microelectronics Journal, 1996, 27, 693-712.	2.0	12
96	Evolutionary algorithms for VLSI multi-objective netlist partitioning. Engineering Applications of Artificial Intelligence, 2006, 19, 257-268.	8.1	12
97	Multi-objective optimal path selection in electric vehicles. Artificial Life and Robotics, 2012, 17, 113-122.	1.2	12
98	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
99	Hardware design and VLSI implementation of a byte-wise CRC generator chip. IEEE Transactions on Consumer Electronics, 1995, 41, 195-200.	3.6	11
100	Multi constrained Route Optimization for Electric Vehicles using SimE. , 2011, , .		11
101	Genetic Algorithm for the Mutual Information-Based Feature Selection in Univariate Time Series Data. IEEE Access, 2020, 8, 9597-9609.	4.2	11
102	A novel hybrid marine predators-Nelder-Mead optimization algorithm for the optimal design of engineering problems. Materialpruefung/Materials Testing, 2021, 63, 453-457.	2.2	11
103	Composite Fading Model for Aerial MIMO FSO Links in the Presence of Atmospheric Turbulence and Pointing Errors. IEEE Wireless Communications Letters, 2021, 10, 1295-1299.	5.0	11
104	On the Comparison of Optimal NOMA and OMA in a Paradigm Shift of Emerging Technologies. IEEE Access, 2022, 10, 11616-11632.	4.2	11
105	An Optimization Heuristic Based on Non-Dominated Sorting and Tabu Search for the Fixed Spectrum Frequency Assignment Problem. IEEE Access, 2018, 6, 72635-72648.	4.2	10
106	Performance Analysis and Optimization of Cascaded I2V and V2V VLC Links. , 2021, , .		10
107	Prediction Using Cuckoo Search Optimized Echo State Network. Arabian Journal for Science and Engineering, 2019, 44, 9769-9778.	3.0	9
108	Adaptive Unipolar MIMO-OFDM for Visible Light Communications. , 2019, , .		9

#	Article	IF	Citations
109	Deep Reinforcement Based Power Allocation for the Max-Min Optimization in Non-Orthogonal Multiple Access. IEEE Access, 2020, 8, 211235-211247.	4.2	9
110	Fast Shot Boundary Detection Based on Separable Moments and Support Vector Machine. IEEE Access, 2021, 9, 106412-106427.	4.2	9
111	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. Materialpruefung/Materials Testing, 2021, 63, 442-447.	2.2	9
112	FSM State-Encoding for Area and Power Minimization Using Simulated Evolution Algorithm. Journal of Applied Research and Technology, 2012, 10, .	0.9	9
113	Multiobjective VLSI cell placement using distributed genetic algorithm. , 2005, , .		8
114	Multiobjective VLSI Cell Placement Using Distributed Simulated Evolution Algorithm. , 0, , .		8
115	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
116	On the Performance of MIMO OFDM-Based Intra-Vehicular VLC Networks. , 2016, , .		8
117	Comparative performance evaluation of MIMO visible light communication systems. , 2016, , .		8
118	Engineering Evolutionary Algorithm to Solve Multi-objective OSPF Weight Setting Problem. Lecture Notes in Computer Science, 2006, , 950-955.	1.3	8
119	OSPF Weight Setting Optimization for Single Link Failures. International Journal of Computer Networks and Communications, 2011, 3, 168-183.	0.3	8
120	Fuzzy simulated evolution algorithm for topology design of campus networks. , 0, , .		7
121	Fuzzy Evolutionary Hybrid Metaheuristic for Network Topology Design. Lecture Notes in Computer Science, 2001, , 400-415.	1.3	7
122	Performance and low power driven VLSI standard cell placement using tabu search. , 0, , .		7
123	Fuzzy aggregating functions for multiobjective VLSI placement. , 0, , .		7
124	Fuzzy simulated evolution algorithm for VLSI cell placement. Computers and Industrial Engineering, 2003, 44, 227-247.	6.3	7
125	Engineering Simulated Evolution for Virtual Machine Assignment Problem. Applied Intelligence, 2015, 43, 296-307.	5.3	7
126	A Game Theory Based Post-Processing Method to Enhance VLSI Global Routers. IEEE Access, 2017, 5, 1328-1339.	4.2	7

#	Article	IF	Citations
127	Genetic algortihm based resource allocation technique for VLC networks. , 2017, , .		7
128	Design of Fault Tolerant Adders: A Review. Arabian Journal for Science and Engineering, 2018, 43, 6667-6692.	3.0	7
129	Optimization of constrained mechanical design problems using the equilibrium optimization algorithm. Materialpruefung/Materials Testing, 2021, 63, 552-559.	2.2	7
130	Vehicle-to-Infrastructure Visible Light Communications: Channel Modelling and Capacity Calculations. , 2020, , .		7
131	A Novel Channel Model and Optimal Power Control Schemes for Mobile mmWave Two-Tier Networks. IEEE Access, 2022, 10, 54445-54458.	4.2	7
132	GAP: a genetic algorithm approach to optimize two-bit decoder PLAs. International Journal of Electronics, 1994, 76, 99-106.	1.4	6
133	Adaptive bias simulated evolution algorithm for placement. , 0, , .		6
134	Parallelizing Tabu Search on a Cluster of Heterogeneous Workstations. Journal of Heuristics, 2002, 8, 277-304.	1.4	6
135	Evaluating Parallel Simulated Evolution Strategies for VLSI Cell Placement. Mathematical Modelling and Algorithms, 2007, 6, 433-454.	0.5	6
136	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
137	Reconfiguration-Based Defect-Tolerant Design Automation for Hybrid CMOS/Nanofabrics Circuits Using Evolutionary and Non-Deterministic Heuristics. Arabian Journal for Science and Engineering, 2015, 40, 2515-2529.	1.1	6
138	Broadcasting brake lights with MIMO-OFDM based vehicular VLC. , 2016, , .		6
139	A stochastic evolution algorithm based 2D VLSI global router. The Integration VLSI Journal, 2016, 53, 115-125.	2.1	6
140	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
141	Deep Q-Learning Based Optimization of VLC Systems With Dynamic Time-Division Multiplexing. IEEE Access, 2020, 8, 120375-120387.	4.2	6
142	Integrating UAHPL-DA systems with VLSI design tools to support VLSI DA courses. IEEE Transactions on Education, 1992, 35, 321-330.	2.4	5
143	Fuzzy biasless simulated evolution for multiobjective VLSI placement. , 0, , .		5
144	Efficient Static Compaction Techniques for Sequential Circuits Based on Reverse-Order Restoration and Test Relaxation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2006, 25, 2556-2564.	2.7	5

#	Article	IF	Citations
145	Asynchronous MMC based Parallel SA Schemes for Multiobjective Standard Cell Placement. , 0, , .		5
146	Poster: On-board camera video transmission over vehicular VLC. , 2016, , .		5
147	Vehicular VLC Channel Model for a Low-Beam Headlight Transmitter. , 2021, , .		5
148	A Comprehensive Literature Review on Children's Databases for Machine Learning Applications. IEEE Access, 2022, 10, 12262-12285.	4.2	5
149	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
150	Automatic Weinberger array synthesis from UAHPL description. International Journal of Electronics, 1990, 69, 211-224.	1.4	4
151	HPTS: heterogeneous parallel tabu search for VLSI placement. , 0, , .		4
152	Simulated evolution for timing and low power VLSI standard cell placement. Engineering Applications of Artificial Intelligence, 2003, 16, 407-423.	8.1	4
153	A Parallel Tabu Search Algorithm for Optimizing Multiobjective VLSI Placement. Lecture Notes in Computer Science, 2005, , 587-595.	1.3	4
154	Algorithm for parallel inverse halftoning using partitioning of Look-Up Table (LUT). , 2008, , .		4
155	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
156	Optimal multi-dimensional vector bin packing using simulated evolution. Journal of Supercomputing, 2017, 73, 5516-5538.	3.6	4
157	A Neighborhood Search-Based Heuristic for the Fixed Spectrum Frequency Assignment Problem. Arabian Journal for Science and Engineering, 2019, 44, 2985-2994.	3.0	4
158	Effect of Wiring and Cabling Topologies on the Performance of Distributed MIMO OFDM VLC Systems. IEEE Access, 2019, 7, 52743-52754.	4.2	4
159	A novel hybrid water wave optimization algorithm for solving complex constrained engineering problems. Materialpruefung/Materials Testing, 2021, 63, 560-564.	2.2	4
160	Finite-SNR Diversity Gain Analysis of FSO Systems over Gamma-Gamma Fading Channels With Pointing Errors. IEEE Communications Letters, 2021, 25, 1940-1944.	4.1	4
161	VLSI layout generation of a programmable CRC chip. IEEE Transactions on Consumer Electronics, 1993, 39, 911-916.	3.6	3
162	Timing-influenced general-cell genetic floorplanner. Microelectronics Journal, 1997, 28, 151-166.	2.0	3

#	Article	IF	Citations
163	CMOS/BiCMOS mixed design using tabu search. Electronics Letters, 1998, 34, 1395.	1.0	3
164	Tabu search based circuit optimization. Engineering Applications of Artificial Intelligence, 2002, 15, 357-368.	8.1	3
165	A simulated evolution approach to task matching and scheduling in heterogeneous computing environments. Engineering Applications of Artificial Intelligence, 2002, 15, 491-500.	8.1	3
166	Exploring Asynchronous MMC-Based Parallel SA Schemes for Multiobjective Cell Placement on a Cluster of Workstations. Arabian Journal for Science and Engineering, 2011, 36, 259-278.	1.1	3
167	Evaluating BLAST Runtime Using NAS-Based High Performance Clusters. , 2011, , .		3
168	Cells reconfiguration around defects in CMOS/nanofabric circuits using simulated evolution heuristic. , 2015, , .		3
169	Effect of scattering phase function on underwater visible light communication channel models. Physical Communication, 2021, 48, 101410.	2.1	3
170	Visible Light Communication-Based Outdoor Broadcasting. , 2021, , .		3
171	Energy-Efficient Coverage Enhancement of Indoor THz-MISO Systems: An FD-NOMA Approach. , 2021, , .		3
172	CAD tool for the automatic generation of microprograms. Microprocessors and Microsystems, 1988, 12, 463-470.	2.8	2
173	Efficient algorithm for Weinberger array folding. International Journal of Electronics, 1990, 69, 509-518.	1.4	2
174	<title>Fuzzy genetic algorithms for floorplanning</title>. , 1997, , .		2
175	A fast constructive algorithm for fixed channel assignment problem. , 0, , .		2
176	Efficient Static Compaction Techniques for Sequential Circuits Based on Reverse Order Restoration and Test Relaxation. , 2005, , .		2
177	Minimizing the Number of Congested Links in OSPF Routing. , 2008, , .		2
178	Efficient CMOL nanoscale hybrid circuit cell assignment using simulated evolution heuristic. , 2012, , .		2
179	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
180	Engineering simulated evolution for integrated power optimization in data centers. Soft Computing, 2018, 22, 3033-3048.	3.6	2

#	Article	IF	Citations
181	Experimental study on broadband radiofrequency electromagnetic radiations near cellular base stations: a novel perspective of public health. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1935-1942.	3.6	2
182	On the Achievable Max-Min User Rates in Multi-Carrier Centralized NOMA-VLC Networks. Sensors, 2021, 21, 3705.	3.8	2
183	A general real-time decoder based on amd2900 devices. Microprocessing and Microprogramming, 1988, 22, 97-113.	0.2	1
184	Design of a programmable length FIFO memory and its controller. International Journal of Electronics, 1988, 65, 923-932.	1.4	1
185	Architecture to store path history in a trellis and its application to Viterbi decoding. International Journal of Electronics, 1992, 72, 11-19.	1.4	1
186	The architecture of a highly reconfigurable RISC dataflow array processor. International Journal of Electronics, 1997, 83, 493-518.	1.4	1
187	Tabu search based circuit optimization. , 0, , .		1
188	A novel technique for fast multiplication. International Journal of Electronics, 1999, 86, 67-77.	1.4	1
189	Comparative evaluation of parallelization strategies for evolutionary and stochastic heuristics. , 2005, , .		1
190	Parallel Algorithm for Hardware Implementation of Inverse Halftoning. , 0, , .		1
191	Computing Optimized NURBS Curves using Simulated Evolution on Control Parameters. Advances in Intelligent and Soft Computing, 2006, , 35-44.	0.2	1
192	Finding Multi-Objective Shortest Paths Using Memory-Efficient Stochastic Evolution Based Algorithm. , 2012, , .		1
193	Tabu search based cells placement in nanofabric architectures with restricted connectivity. , 2013, , .		1
194	A Machine Learning Method to Synthesize Channel State Information Data in Millimeter Wave Networks. IEEE Access, 2021, 9, 83441-83452.	4.2	1
195	Allied Power Constraint Optimization and Optimal Beam Tracking Schemes for Mobile mmWave Massive MIMO Communications. IEEE Access, 2021, 9, 162243-162258.	4.2	1
196	Bit-slice microprocessor-based communications decoder. Microprocessors and Microsystems, 1987, 11, 527-533.	2.8	0
197	State machine synthesis with Weinberger arrays. International Journal of Electronics, 1991, 71, 1-12.	1.4	0
198	PCB layout generation from RTL specifications. International Journal of Electronics, 1992, 72, 1-10.	1.4	0

#	Article	IF	Citations
199	Designing ASICs with UAHPL. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 1995, 11, 14-24.	0.4	0
200	VLSI design and implementation of systolic tree queues. Microprocessors and Microsystems, 1995, 19, 139-146.	2.8	0
201	Efficient network folding techniques for routing permutations in VLSI. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 1995, 3, 254-263.	3.1	0
202	SimEâˆ•TS fuzzy hybrid for multiobjective VLSI placement. Electronics Letters, 2006, 42, 364.	1.0	0
203	Parallel Strategies for Stochastic Evolution. , 2007, , .		0
204	Evaluating Qlogic's Dispersive Routing on High Performance Clusters. , 2012, , .		0
205	Recent Advances in Mathematical Aspects of Engineering. Symmetry, 2021, 13, 811.	2.2	0
206	Parallel Strategies for Stochastic Evolution. , 2007, , .		0