

Chang-Wook Ahn

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133 papers	3,834 citations	23 h-index	60 g-index
152 ext. papers	4,845 ext. citations	3.2 avg, IF	5.77 L-index

#	Paper	IF	Citations
133	Spatial Modulation. <i>IEEE Transactions on Vehicular Technology</i> , 2008 , 57, 2228-2241	6.8	1527
132	. <i>IEEE Transactions on Evolutionary Computation</i> , 2002 , 6, 566-579	15.6	350
131	Spatial Modulation - A New Low Complexity Spectral Efficiency Enhancing Technique 2006 ,		299
130	Elitism-based compact genetic algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , 2003 , 7, 367-385	3.56	131
129	A robust image watermarking technique using SVD and differential evolution in DCT domain. <i>Optik</i> , 2014 , 125, 428-434	2.5	119
128	An optimized watermarking technique based on self-adaptive DE in DWT-SVD transform domain. <i>Signal Processing</i> , 2014 , 94, 545-556	4.4	110
127	An image watermarking scheme in wavelet domain with optimized compensation of singular value decomposition via artificial bee colony. <i>Information Sciences</i> , 2015 , 301, 44-60	7.7	85
126	Robust and false positive free watermarking in IWT domain using SVD and ABC. <i>Engineering Applications of Artificial Intelligence</i> , 2016 , 49, 114-125	7.2	79
125	Multi-level image thresholding by synergetic differential evolution. <i>Applied Soft Computing Journal</i> , 2014 , 17, 1-11	7.5	62
124	Differential evolution algorithm for the selection of optimal scaling factors in image watermarking. <i>Engineering Applications of Artificial Intelligence</i> , 2014 , 31, 15-26	7.2	60
123	SVD based fragile watermarking scheme for tamper localization and self-recovery. <i>International Journal of Machine Learning and Cybernetics</i> , 2016 , 7, 1225-1239	3.8	52
122	On the Performance of Spatial Modulation OFDM 2006 ,		50
121	Comments on Optimized gray-scale image watermarking using DWT-SVD and Firefly Algorithm□ <i>Expert Systems With Applications</i> , 2015 , 42, 2392-2394	7.8	40
120	Estimation of particle swarm distribution algorithms: Combining the benefits of PSO and EDAs. <i>Information Sciences</i> , 2012 , 192, 109-119	7.7	39
119	Shortest path routing algorithm using Hopfield neural network. <i>Electronics Letters</i> , 2001 , 37, 1176	1.1	39
118	QoS provisioning dynamic connection-admission control for multimedia wireless networks using a Hopfield neural network. <i>IEEE Transactions on Vehicular Technology</i> , 2004 , 53, 106-117	6.8	37
117	Multi-objective path finding in stochastic time-dependent road networks using non-dominated sorting genetic algorithm. <i>Expert Systems With Applications</i> , 2015 , 42, 5056-5064	7.8	36

116	Real-Coded Bayesian Optimization Algorithm: Bringing the Strength of BOA into the Continuous World. <i>Lecture Notes in Computer Science</i> , 2004 , 840-851	0.9	29
115	ABC optimized secured image watermarking scheme to find out the rightful ownership. <i>Optik</i> , 2016 , 127, 5711-5721	2.5	29
114	Image matching using peak signal-to-noise ratio-based occlusion detection. <i>IET Image Processing</i> , 2012 , 6, 483	1.7	28
113	An adaptive Cauchy differential evolution algorithm for global numerical optimization. <i>Scientific World Journal, The</i> , 2013 , 2013, 969734	2.2	26
112	Artificial bee colony optimized robust-reversible image watermarking. <i>Multimedia Tools and Applications</i> , 2017 , 76, 18001-18025	2.5	23
111	Evolutionary hidden information detection by granulation-based fitness approximation. <i>Applied Soft Computing Journal</i> , 2010 , 10, 719-729	7.5	23
110	On the Scalability of Real-Coded Bayesian Optimization Algorithm. <i>IEEE Transactions on Evolutionary Computation</i> , 2008 , 12, 307-322	15.6	23
109	Efficient classification system based on FuzzyRough Feature Selection and Multitree Genetic Programming for intension pattern recognition using brain signal. <i>Expert Systems With Applications</i> , 2015 , 42, 1644-1651	7.8	22
108	Hybrid Artificial Bee Colony Algorithm for an Energy Efficient Internet of Things based on Wireless Sensor Network. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2017 , 34, 39-51	1.5	20
107	An efficient lossless robust watermarking scheme by integrating redistributed invariant wavelet and fractional Fourier transforms. <i>Multimedia Tools and Applications</i> , 2018 , 77, 11751-11773	2.5	18
106	Image restoration by blind-Wiener filter. <i>IET Image Processing</i> , 2014 , 8, 815-823	1.7	17
105	An optimal image watermarking approach through cuckoo search algorithm in wavelet domain. <i>International Journal of Systems Assurance Engineering and Management</i> , 2018 , 9, 602-611	1.3	16
104	Fast artificial bee colony and its application to stereo correspondence. <i>Expert Systems With Applications</i> , 2016 , 45, 460-470	7.8	15
103	A Novel YOLOv3 Algorithm-Based Deep Learning Approach for Waste Segregation: Towards Smart Waste Management. <i>Electronics (Switzerland)</i> , 2021 , 10, 14	2.6	15
102	Multi-objective evolutionary approach to select security solutions. <i>CAAI Transactions on Intelligence Technology</i> , 2017 , 2, 64-67	9.7	13
101	A Reliable Image Watermarking Scheme Based on Redistributed Image Normalization and SVD. <i>Discrete Dynamics in Nature and Society</i> , 2016 , 2016, 1-15	1.1	13
100	A Genetic Algorithm with Location Intelligence Method for Energy Optimization in 5G Wireless Networks. <i>Discrete Dynamics in Nature and Society</i> , 2016 , 2016, 1-9	1.1	13
99	Entropy-based efficiency enhancement techniques for evolutionary algorithms. <i>Information Sciences</i> , 2012 , 188, 100-120	7.7	12

98	Linkage artificial bee colony for solving linkage problems. <i>Expert Systems With Applications</i> , 2016 , 61, 378-385	7.8	11
97	Secured and Optimized Robust Image Watermarking Scheme. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 4085-4104	2.5	10
96	A diversity preserving selection in multiobjective evolutionary algorithms. <i>Applied Intelligence</i> , 2010 , 32, 231-248	4.9	10
95	Contention-free distributed dynamic reservation MAC protocol with deterministic scheduling (C-FD/sup 3/R MAC) for wireless ATM networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2000 , 18, 1623-1635	14.2	10
94	An Adaptive Cauchy Differential Evolution Algorithm with Population Size Reduction and Modified Multiple Mutation Strategies. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2015 , 13-26	0.2	10
93	An efficient GP approach to recognizing cognitive tasks from fNIRS neural signals. <i>Science China Information Sciences</i> , 2013 , 56, 1-7	3.4	9
92	Template matching of occluded object under low PSNR 2013 , 23, 870-878		9
91	Adaptive stable differential evolution in numerical optimization. <i>Natural Computing</i> , 2017 , 16, 637-657	1.3	9
90	A recommender system based on interactive evolutionary computation with data grouping. <i>Procedia Computer Science</i> , 2011 , 3, 611-616	1.6	9
89	Multiobjective real-coded bayesian optimization algorithm revisited: diversity preservation 2007 ,		9
88	Data Analytics and Mathematical Modeling for Simulating the Dynamics of COVID-19 Epidemic: A Case Study of India. <i>Electronics (Switzerland)</i> , 2021 , 10, 127	2.6	9
87	A multi-objective evolutionary approach to automatic melody generation. <i>Expert Systems With Applications</i> , 2017 , 90, 50-61	7.8	8
86	An Adaptive Population Resizing Scheme for Differential Evolution in Numerical Optimization. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015 , 12, 1336-1350	0.3	8
85	Improving Energy Efficiency in Cooperative Foraging Swarm Robots Using Behavioral Model 2011 ,		8
84	An Optimized Digital Watermarking Scheme Based on Invariant DC Coefficients in Spatial Domain. <i>Electronics (Switzerland)</i> , 2020 , 9, 1428	2.6	8
83	Blind Image Watermarking for Localization and Restoration of Color Images. <i>IEEE Access</i> , 2020 , 8, 200157-200169	3.3	8
82	Artificial life based on boids model and evolutionary chaotic neural networks for creating artworks. <i>Swarm and Evolutionary Computation</i> , 2019 , 47, 80-88	9.8	8
81	Adaptive Differential Evolution with Elite Opposition-Based Learning and its Application to Training Artificial Neural Networks. <i>Fundamenta Informaticae</i> , 2019 , 164, 227-242	1	7

80	Adaptive Cauchy Differential Evolution with Strategy Adaptation and Its Application to Training Large-Scale Artificial Neural Networks. <i>Communications in Computer and Information Science</i> , 2017 , 502-510	0.3	7
79	SWARM DIRECTIONS EMBEDDED DIFFERENTIAL EVOLUTION FOR FASTER CONVERGENCE OF GLOBAL OPTIMIZATION PROBLEMS. <i>International Journal on Artificial Intelligence Tools</i> , 2012 , 21, 1240013	0.9	7
78	Wireless cooperative communication 2011 ,		7
77	Gathering-based routing protocol in mobile ad hoc networks. <i>Computer Communications</i> , 2006 , 30, 202-206	0.9	7
76	A Memory-Efficient Elitist Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , 2004 , 552-559	0.9	7
75	A Genetic Algorithm (GA) Approach to the Portfolio Design Based on Market Movements and Asset Valuations. <i>IEEE Access</i> , 2020 , 8, 140234-140249	3.5	7
74	An Improved Differential Evolution Algorithm and Its Application to Large-Scale Artificial Neural Networks. <i>Journal of Physics: Conference Series</i> , 2017 , 806, 012010	0.3	6
73	Biasing the transition of Bayesian optimization algorithm between Markov chain states in dynamic environments. <i>Information Sciences</i> , 2016 , 334-335, 44-64	7.7	6
72	Hybrid fighting game AI using a genetic algorithm and Monte Carlo tree search 2018 ,		6
71	Improved food sources in Artificial Bee Colony 2013 ,		6
70	Fast and adaptive evolutionary algorithm for minimum-cost multicast with network coding. <i>Electronics Letters</i> , 2011 , 47, 700	1.1	6
69	Multi-objective evolutionary approach to coding-link cost trade-offs in network coding. <i>Electronics Letters</i> , 2012 , 48, 1595-1596	1.1	6
68	A hybrid multiobjective evolutionary algorithm: Striking a balance with local search. <i>Mathematical and Computer Modelling</i> , 2010 , 52, 2048-2059		5
67	An Adaptive Cauchy Differential Evolution Algorithm with Bias Strategy Adaptation Mechanism for Global Numerical Optimization. <i>Journal of Computers</i> , 2014 , 9,	1.4	5
66	PSO Optimized and Secured Watermarking Scheme Based on DWT and SVD. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 411-424	0.4	5
65	Robust optimization using Bayesian optimization algorithm: Early detection of non-robust solutions. <i>Applied Soft Computing Journal</i> , 2017 , 61, 1125-1138	7.5	4
64	Stereo Matching Methods for Imperfectly Rectified Stereo Images. <i>Symmetry</i> , 2019 , 11, 570	2.7	4
63	Automotive ECU Data-Based Driver Propensity Learning Using Evolutionary Random Forest. <i>IEEE Access</i> , 2019 , 7, 51899-51906	3.5	4

62	Genetic state-grouping algorithm for deep reinforcement learning. <i>Expert Systems With Applications</i> , 2020 , 161, 113695	7.8	4
61	A market-oriented wafer map optimization methodology using differential evolution to maximize wafer productivity 2017 ,		4
60	Cuckoo Search Algorithm for the Selection of Optimal Scaling Factors in Image Watermarking. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 413-425	0.4	4
59	An approach to self-assembling swarm robots using multitree genetic programming. <i>Scientific World Journal, The</i> , 2013 , 2013, 593848	2.2	4
58	Neural network based near-optimal routing algorithm		4
57	An improved LSHADE-RSP algorithm with the Cauchy perturbation: iLSHADE-RSP. <i>Knowledge-Based Systems</i> , 2021 , 215, 106628	7.3	4
56	Practical Genetic Algorithms 2006 , 7		4
55	Novel Improvements on the Fuzzy-Rough QuickReduct Algorithm. <i>IEICE Transactions on Information and Systems</i> , 2015 , E98.D, 453-456	0.6	3
54	Estimation of particle swarm distribution algorithms 2009 ,		3
53	Adaptive Maximum Power Point Tracking Algorithm for Photovoltaic Power Systems. <i>IEICE Transactions on Communications</i> , 2010 , E93-B, 1334-1337	0.5	3
52	An Evolutionary Approach to Driving Tendency Recognition for Advanced Driver Assistance Systems. <i>MATEC Web of Conferences</i> , 2016 , 56, 02012	0.3	3
51	Self-Supervised Contextual Data Augmentation for Natural Language Processing. <i>Symmetry</i> , 2019 , 11, 1393	2.7	3
50	Communication Cost Reduction with Partial Structure in Federated Learning. <i>Electronics (Switzerland)</i> , 2021 , 10, 2081	2.6	3
49	A fast and efficient image watermarking scheme based on Deep Neural Network. <i>Pattern Recognition Letters</i> , 2021 , 151, 222-228	4.7	3
48	Predicting combat outcomes and optimizing armies in StarCraft II by deep learning. <i>Expert Systems With Applications</i> , 2021 , 185, 115592	7.8	3
47	MABC: Power-Based Location Planning with a Modified ABC Algorithm for 5G Networks. <i>Discrete Dynamics in Nature and Society</i> , 2017 , 2017, 1-13	1.1	2
46	Accelerating differential evolution using multiple exponential cauchy mutation 2018 ,		2
45	Integrating agent actions with genetic action sequence method 2019 ,		2

44	Genetic clustering based on segregation distortion caused by selfish genes 2012 ,		2
43	An optimized watermarking technique based on DE in DWT-SVD domain 2013 ,		2
42	An optimized watermarking technique employing SVD in DWT domain 2013 ,		2
41	Trim Loss Optimization by an Improved Differential Evolution. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-8	1.1	2
40	Self-adaptive evolutionary network coding algorithm: A constraint handling approach 2010 ,		2
39	Improving energy efficiency based on behavioral model in a swarm of cooperative foraging robots 2011 ,		2
38	Foraging swarm robots system adopting honey bee swarm for improving energy efficiency 2012 ,		2
37	Improving Proximity and Diversity in Multiobjective Evolutionary Algorithms. <i>IEICE Transactions on Information and Systems</i> , 2010 , E93-D, 2879-2882	0.6	2
36	An evolutionary cluster validation index 2008 ,		2
35	A Genetic Programming Approach to Data Clustering. <i>Communications in Computer and Information Science</i> , 2011 , 123-132	0.3	2
34	Design of Selecting Security Solution Using Multi-objective Genetic Algorithm. <i>Communications in Computer and Information Science</i> , 2016 , 512-517	0.3	2
33	LSTM Encoder-Decoder with Adversarial Network for Text Generation from Keyword. <i>Communications in Computer and Information Science</i> , 2018 , 388-396	0.3	2
32	A Performance Comparison of Crossover Variations in Differential Evolution for Training Multi-layer Perceptron Neural Networks. <i>Communications in Computer and Information Science</i> , 2018 , 477-488	0.3	2
31	Parameter selection framework for stereo correspondence. <i>Machine Vision and Applications</i> , 2020 , 31, 1	2.8	1
30	A Conditional Dependency Based Probabilistic Model Building Grammatical Evolution. <i>IEICE Transactions on Information and Systems</i> , 2016 , E99.D, 1937-1940	0.6	1
29	On the security of "block-based SVD image watermarking in spatial and transform domains" 2018 ,		1
28	A New Evolutionary Approach to Recommender Systems. <i>IEICE Transactions on Information and Systems</i> , 2014 , E97.D, 622-625	0.6	1
27	Holographic memory-based Bayesian optimization algorithm (HM-BOA) in dynamic environments. <i>Science China Information Sciences</i> , 2013 , 56, 1-17	3.4	1

26	A honey bee swarm-inspired cooperation algorithm for foraging swarm robots: An empirical analysis 2013 ,		1
25	A hybrid evolutionary algorithm for multiobjective optimization 2009 ,		1
24	UMBGE: Univariate Model Based Grammatical Evolution. <i>Journal of Computational and Theoretical Nanoscience</i> , 2016 , 13, 4104-4110	0.3	1
23	Energy Efficient Cooperative Foraging Swarm Robots Using Adaptive Behavioral Model. <i>Journal of Institute of Control, Robotics and Systems</i> , 2012 , 18, 21-27	1	1
22	Robust matching cost function based on evolutionary approach. <i>Expert Systems With Applications</i> , 2020 , 161, 113712	7.8	1
21	Multiple Instance Learning with Differential Evolutionary Pooling. <i>Electronics (Switzerland)</i> , 2021 , 10, 1403	2.6	1
20	Spellcaster Control Agent in StarCraft II Using Deep Reinforcement Learning. <i>Electronics (Switzerland)</i> , 2020 , 9, 996	2.6	0
19	PSO Optimized Multipurpose Image Watermarking Using SVD and Chaotic Sequence. <i>Communications in Computer and Information Science</i> , 2015 , 1-17	0.3	0
18	A Recommendation System Based-on Interactive Evolutionary Computation with Data Grouping. <i>Journal of Institute of Control, Robotics and Systems</i> , 2011 , 17, 739-746	1	0
17	Electrical Energy Prediction of Combined Cycle Power Plant Using Gradient Boosted Generalized Additive Model. <i>IEEE Access</i> , 2022 , 10, 24566-24577	3.5	0
16	Quantum Algorithm on Logistic Regression Problem. <i>IEICE Transactions on Information and Systems</i> , 2019 , E102.D, 856-858	0.6	
15	Comments on B robust logo watermarking technique in divisive normalization transform domain [J]. <i>Multimedia Tools and Applications</i> , 2015 , 74, 11867-11869	2.5	
14	Unsupervised Learning for Stereo Matching Using Single-View Videos. <i>IEEE Access</i> , 2020 , 8, 73804-73815	3.5	
13	Neighbor-Interactive Bee Colony for Problems with Local Structures. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2017 , E100.A, 2034-2037	0.4	
12	Simple Linkage Identification Using Genetic Clustering. <i>Lecture Notes in Computer Science</i> , 2017 , 373-384	0.9	
11	An Evolutionary Approach to Generate Rhythm and Melody Based on Repertories. <i>Communications in Computer and Information Science</i> , 2015 , 181-199	0.3	
10	A Quantum Evolutionary Approach to Multimodal Optimization. <i>Journal of Computational and Theoretical Nanoscience</i> , 2016 , 13, 636-642	0.3	
9	Honey Bee Swarm Inspired Cooperative Foraging Systems in Dynamic Environments. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2016 , E99.A, 1171-1178	0.4	

8	Entropy-Based Evaluation Relaxation Strategy for Bayesian Optimization Algorithm. <i>Lecture Notes in Computer Science</i> , 2010 , 126-135	0.9
7	Feature Extraction for StarCraft II League Prediction. <i>Electronics (Switzerland)</i> , 2021 , 10, 909	2.6
6	Self-Adaptive Genetic Programming for Manufacturing Big Data Analysis. <i>Symmetry</i> , 2021 , 13, 709	2.7
5	A Multi-agent System for Creating Art Based on Boids with Evolutionary and Neural Networks. <i>Communications in Computer and Information Science</i> , 2016 , 518-523	0.3
4	Lug Position and Orientation Detection for Robotics Using Maximum Trace Bee Colony. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2018 , E101.A, 549-552	0.4
3	Quantum Algorithm for Crowding Method. <i>Communications in Computer and Information Science</i> , 2018 , 397-404	0.3
2	Nondominated Policy-Guided Learning in Multi-Objective Reinforcement Learning. <i>Electronics (Switzerland)</i> , 2022 , 11, 1069	2.6
1	Real-coded Bayesian Optimization Algorithm 2006 , 51-73	