Kay Chen Tan

List of Publications by Citations

216 papers	5,181 citations	33 h-index	66 g-index
250 ext. papers	7,001 ext. citations	6.5 avg, IF	6.57 L-index

#	Paper	IF	Citations
216	A Multi-Facet Survey on Memetic Computation. *IEEE Transactions on Evolutionary Computation*, **2011**, 15, 591-607	15.6	408
215	A Competitive-Cooperative Coevolutionary Paradigm for Dynamic Multiobjective Optimization. *IEEE Transactions on Evolutionary Computation*, **2009**, 13, 103-127	15.6	329
214	Multiobjective Deep Belief Networks Ensemble for Remaining Useful Life Estimation in Prognostics. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 2306-2318	10.3	310
213	A Generic Deep-Learning-Based Approach for Automated Surface Inspection. *IEEE Transactions on Cybernetics*, **2018**, 48, 929-940	10.2	225
212	Multiobjective Multifactorial Optimization in Evolutionary Multitasking. *IEEE Transactions on Cybernetics*, **2017**, 47, 1652-1665	10.2	155
211	Automatic Design of Scheduling Policies for Dynamic Multi-objective Job Shop Scheduling via Cooperative Coevolution Genetic Programming. *IEEE Transactions on Evolutionary Computation*, **2014**, 18, 193-208	15.6	153
210	. *IEEE Transactions on Evolutionary Computation*, **2013**, 17, 666-685	15.6	136
209	A Computational Study of Representations in Genetic Programming to Evolve Dispatching Rules for the Job Shop Scheduling Problem. *IEEE Transactions on Evolutionary Computation*, **2013**, 17, 621-639	15.6	134
208	Evolutionary Dynamic Multiobjective Optimization Via Kalman Filter Prediction. *IEEE Transactions on Cybernetics*, **2016**, 46, 2862-2873	10.2	107
207	Evolutionary artificial potential fields and their application in real time robot path planning		99
206	Evolutionary Multitasking via Explicit Autoencoding. *IEEE Transactions on Cybernetics*, **2019**, 49, 3457-3470	10.2	98
205	Precise-spike-driven synaptic plasticity: learning hetero-association of spatiotemporal spike patterns. *PLoS ONE*, **2013**, 8, e78318	3.7	98
204	Automatic programming via iterated local search for dynamic job shop scheduling. *IEEE Transactions on Cybernetics*, **2015**, 45, 1-14	10.2	94
203	A predictive gradient strategy for multiobjective evolutionary algorithms in a fast changing environment. *Memetic Computing*, **2010**, 2, 87-110	3.4	93
202	Rapid feedforward computation by temporal encoding and learning with spiking neurons. *IEEE Transactions on Neural Networks and Learning Systems*, **2013**, 24, 1539-52	10.3	89
201	A Cost-Sensitive Deep Belief Network for Imbalanced Classification. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 109-122	10.3	87
200	Evolutionary Cluster-Based Synthetic Oversampling Ensemble (ECO-Ensemble) for Imbalance Learning. *IEEE Transactions on Cybernetics*, **2017**, 47, 2850-2861	10.2	78

199	A brain-inspired spiking neural network model with temporal encoding and learning. *Neurocomputing*, **2014**, 138, 3-13	5.4	72
198	Adaptive Cross-Generation Differential Evolution Operators for Multiobjective Optimization. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 232-244	15.6	71
197	Hybrid multiobjective evolutionary design for artificial neural networks. *IEEE Transactions on Neural Networks*, **2008**, 19, 1531-48		65
196	. *IEEE Transactions on Evolutionary Computation*, **2015**, 19, 542-559	15.6	62
195	Surrogate-Assisted Genetic Programming With Simplified Models for Automated Design of Dispatching Rules. *IEEE Transactions on Cybernetics*, **2017**, 47, 2951-2965	10.2	60
194	A Spiking Neural Network System for Robust Sequence Recognition. *IEEE Transactions on Neural Networks and Learning Systems*, **2016**, 27, 621-35	10.3	57
193	Multiple Exponential Recombination for Differential Evolution. *IEEE Transactions on Cybernetics*, **2017**, 47, 995-1006	10.2	52
192	Adaptive memetic computing for evolutionary multiobjective optimization. *IEEE Transactions on Cybernetics*, **2015**, 45, 610-21	10.2	50
191	Learning iterative dispatching rules for job shop scheduling with genetic programming. *International Journal of Advanced Manufacturing Technology*, **2013**, 67, 85-100	3.2	43
190	A New Differential Evolution Algorithm for Minimax Optimization in Robust Design. *IEEE Transactions on Cybernetics*, **2018**, 48, 1355-1368	10.2	42
189	Multimodal Degradation Prognostics Based on Switching Kalman Filter Ensemble. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 136-148	10.3	39
188	Vehicle capacity planning system: a case study on vehicle routing problem with time windows. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2003**, 33, 169-178		37
187	Evolutionary Game Theoretic Approach for Modeling Civil Violence. *IEEE Transactions on Evolutionary Computation*, **2009**, 13, 780-800	15.6	35
186	A survey on evolutionary computation for complex continuous optimization. *Artificial Intelligence Review*,1	9.7	34
185	Solving Multiobjective Optimization Problems in Unknown Dynamic Environments: An Inverse Modeling Approach. *IEEE Transactions on Cybernetics*, **2017**, 47, 4223-4234	10.2	33
184	Solving Large-Scale Multiobjective Optimization Problems With Sparse Optimal Solutions via Unsupervised Neural Networks. *IEEE Transactions on Cybernetics*, **2021**, 51, 3115-3128	10.2	33
183	Toward Adaptive Knowledge Transfer in Multifactorial Evolutionary Computation. *IEEE Transactions on Cybernetics*, **2021**, 51, 2563-2576	10.2	33
182	Affine Transformation-Enhanced Multifactorial Optimization for Heterogeneous Problems. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	33

181	A Benchmark Test Suite for Dynamic Evolutionary Multiobjective Optimization. *IEEE Transactions on Cybernetics*, **2017**, 47, 461-472	10.2	32
180	Dynamic Game Difficulty Scaling Using Adaptive Behavior-Based AI. *IEEE Transactions on Games*, **2011**, 3, 289-301		32
179	Dynamic Multi-objective Job Shop Scheduling: A Genetic Programming Approach. *Studies in Computational Intelligence*, **2013**, 251-282	0.8	32
178	Evolutionary Multiobjective Optimization Driven by Generative Adversarial Networks (GANs). *IEEE Transactions on Cybernetics*, **2021**, 51, 3129-3142	10.2	32
177	Explicit Evolutionary Multitasking for Combinatorial Optimization: A Case Study on Capacitated Vehicle Routing Problem. *IEEE Transactions on Cybernetics*, **2021**, 51, 3143-3156	10.2	32
176	A Spiking Neural Network Framework for Robust Sound Classification. *Frontiers in Neuroscience*, **2018**, 12, 836	5.1	32
175	Dynamic Multiobjective Optimization Using Evolutionary Algorithm with Kalman Filter. *Procedia Computer Science*, **2013**, 24, 66-75	1.6	31
174	Multi-objective optimization with estimation of distribution algorithm in a noisy environment. *Evolutionary Computation*, **2013**, 21, 149-77	4.3	31
173	A Survey on Evolutionary Neural Architecture Search. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	31
172	Hybrid evolutionary computation methods for quay crane scheduling problems. *Computers and Operations Research*, **2013**, 40, 2083-2093	4.6	30
171	Evolutionary big optimization (BigOpt) of signals **2015**,		30
170	Genetic programming for evolving due-date assignment models in job shop environments. *Evolutionary Computation*, **2014**, 22, 105-38	4.3	28
169	Training cost-sensitive Deep Belief Networks on imbalance data problems **2016**,		27
168	Deep Belief Networks Ensemble with Multi-objective Optimization for Failure Diagnosis **2015**,		27
167	CAutoCSD-evolutionary search and optimisation enabled computer automated control system design. *International Journal of Automation and Computing*, **2004**, 1, 76-88	3.5	27
166	Spatio-Spectral Representation Learning for Electroencephalographic Gait-Pattern Classification. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2018**, 26, 1858-1867	4.8	26
165	Surrogate-Assisted Evolutionary Multitask Genetic Programming for Dynamic Flexible Job Shop Scheduling. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 651-665	15.6	26
164	Cognitive Navigation by Neuro-Inspired Localization, Mapping, and Episodic Memory. *IEEE Transactions on Cognitive and Developmental Systems*, **2018**, 10, 751-761	3	24

163	A time window neural network based framework for Remaining Useful Life estimation **2016**,		23
162	Automatic EEG Artifact Removal Techniques by Detecting Influential Independent Components. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2017**, 1, 270-279	4.1	23
161	Decomposition-based multi-objective evolutionary algorithm for vehicle routing problem with stochastic demands. *Soft Computing*, **2016**, 20, 3443-3453	3.5	22
160	Restricted Boltzmann machine based algorithm for multi-objective optimization **2010**,		22
159	A Subregion Division-Based Evolutionary Algorithm With Effective Mating Selection for Many-Objective Optimization. *IEEE Transactions on Cybernetics*, **2020**, 50, 3477-3490	10.2	22
158	Deep Spiking Neural Networks for Large Vocabulary Automatic Speech Recognition. *Frontiers in Neuroscience*, **2020**, 14, 199	5.1	21
157	Spike Timing or Rate? Neurons Learn to Make Decisions for Both Through Threshold-Driven Plasticity. *IEEE Transactions on Cybernetics*, **2019**, 49, 2178-2189	10.2	21
156	An Effective Knowledge Transfer Approach for Multiobjective Multitasking Optimization. *IEEE Transactions on Cybernetics*, **2021**, 51, 3238-3248	10.2	21
155	Solving Generalized Vehicle Routing Problem With Occasional Drivers via Evolutionary Multitasking. *IEEE Transactions on Cybernetics*, **2021**, 51, 3171-3184	10.2	21
154	Evolutionary algorithms for solving multi-objective travelling salesman problem. *Flexible Services and Manufacturing Journal*, **2011**, 23, 207-241	1.8	19
153	Evolutionary Many-Objective Algorithm Using Decomposition-Based Dominance Relationship. *IEEE Transactions on Cybernetics*, **2019**, 49, 4129-4139	10.2	19
152	Bipartite Differential Neural Network for Unsupervised Image Change Detection. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 876-890	10.3	19
151	Adjust weight vectors in MOEA/D for bi-objective optimization problems with discontinuous Pareto fronts. *Soft Computing*, **2018**, 22, 3997-4012	3.5	18
150	Using the OPC standard for real-time process monitoring and control. *IEEE Software*, **2005**, 22, 54-59	1.5	18
149	Fault-tolerant vibration control in a networked and embedded rocket fairing system. *IEEE Transactions on Industrial Electronics*, **2004**, 51, 1127-1141	8.9	18
148	Interoperable multi-agent framework for unmanned aerial/ground vehicles: towards robot autonomy. *Complex & Intelligent Systems*, **2016**, 2, 45-59	7.1	18
147	A Mixture-of-Experts Prediction Framework for Evolutionary Dynamic Multiobjective Optimization. *IEEE Transactions on Cybernetics*, **2020**, 50, 5099-5112	10.2	18
146	Sparse Temporal Encoding of Visual Features for Robust Object Recognition by Spiking Neurons. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 5823-5833	10.3	17

145	Numerical Spiking Neural P Systems. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 2443-2457	10.3	17
144	Enhancing the scalability of multi-objective optimization via restricted Boltzmann machine-based estimation of distribution algorithm. *Information Sciences*, **2013**, 248, 191-213	7.7	16
143	Two-stage assortative mating for multi-objective multifactorial evolutionary optimization **2017**,		16
142	Identifying Autism Spectrum Disorder From Resting-State fMRI Using Deep Belief Network. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 2847-2861	10.3	16
141	Decompositional independent component analysis using multi-objective optimization. *Soft Computing*, **2016**, 20, 1289-1304	3.5	15
140	A Fast Dynamic Evolutionary Multiobjective Algorithm via Manifold Transfer Learning. *IEEE Transactions on Cybernetics*, **2021**, 51, 3417-3428	10.2	15
139	Multiobjective Sparse Non-Negative Matrix Factorization. *IEEE Transactions on Cybernetics*, **2019**, 49, 2941-2954	10.2	15
138	Artifact Removal from EEG Using a Multi-objective Independent Component Analysis Model. *Lecture Notes in Computer Science*, **2014**, 570-577	0.9	15
137	Balancing Objective Optimization and Constraint Satisfaction in Constrained Evolutionary Multiobjective Optimization. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	15
136	. *IEEE Transactions on Evolutionary Computation*, **2009**, 13, 303-320	15.6	14
135	Individual-Based Transfer Learning for Dynamic Multiobjective Optimization. *IEEE Transactions on Cybernetics*, **2021**, 51, 4968-4981	10.2	14
134	A Multipopulation Evolutionary Algorithm for Solving Large-Scale Multimodal Multiobjective Optimization Problems. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 405-418	15.6	14
133	Manifold Learning-Inspired Mating Restriction for Evolutionary Multiobjective Optimization With Complicated Pareto Sets. *IEEE Transactions on Cybernetics*, **2021**, 51, 3325-3337	10.2	14
132	Interference-less neural network training. *Neurocomputing*, **2008**, 71, 3509-3524	5.4	13
131	Multi-label Feature Selection via Global Relevance and Redundancy Optimization **2020**,		13
130	Enhancing genetic programming based hyper-heuristics for dynamic multi-objective job shop scheduling problems **2015**,		12
129	Selection Schemes in Surrogate-Assisted Genetic Programming for Job Shop Scheduling. *Lecture Notes in Computer Science*, **2014**, 656-667	0.9	12
128	Evolutionary Large-Scale Multi-Objective Optimization: A Survey. *ACM Computing Surveys*, **2022**, 54, 1-34	13.4	12

127	A Recommender System for Metaheuristic Algorithms for Continuous Optimization Based on Deep Recurrent Neural Networks. *IEEE Transactions on Artificial Intelligence*, **2020**, 1, 5-18	4.7	12
126	Multitask Genetic Programming-Based Generative Hyperheuristics: A Case Study in Dynamic Scheduling. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	12
125	Finding High-Dimensional D-Optimal Designs for Logistic Models via Differential Evolution. *IEEE Access*, **2019**, 7, 7133-7146	3.5	11
124	Sparse representation of phonetic features for voice conversion with and without parallel data **2017**,		11
123	A hybrid evolutionary multiobjective optimization algorithm with adaptive multi-fitness assignment. *Soft Computing*, **2015**, 19, 3249-3259	3.5	11
122	A coevolution genetic programming method to evolve scheduling policies for dynamic multi-objective job shop scheduling problems **2012**,		11
121	Handling Uncertainties in Evolutionary Multi-Objective Optimization **2008**, 262-292		11
120	Evolving the Tradeoffs between Pareto-Optimality and Robustness in Multi-Objective Evolutionary Algorithms. *Studies in Computational Intelligence*, **2007**, 457-478	0.8	11
119	People-Centric Evolutionary System for Dynamic Production Scheduling. *IEEE Transactions on Cybernetics*, **2021**, 51, 1403-1416	10.2	11
118	Visualizing the Evolution of Computer Programs for Genetic Programming [Research Frontier]. *IEEE Computational Intelligence Magazine*, **2018**, 13, 77-94	5.6	11
117	A data-driven prognostics framework for tool remaining useful life estimation in tool condition monitoring **2017**,		10
116	Analysis of continuous attractors for 2-D linear threshold neural networks. *IEEE Transactions on Neural Networks*, **2009**, 20, 175-80		10
115	Evolving Reusable Operation-Based Due-Date Assignment Models for Job Shop Scheduling with Genetic Programming. *Lecture Notes in Computer Science*, **2012**, 121-133	0.9	10
114	A Unified Entropy-Based Distance Metric for Ordinal-and-Nominal-Attribute Data Clustering. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 39-52	10.3	10
113	Nontrivial global attractors in 2-D multistable attractor neural networks. *IEEE Transactions on Neural Networks*, **2009**, 20, 1842-51		9
112	A Novel Time Series-Histogram of Features (TS-HoF) Method for Prognostic Applications. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2018**, 2, 204-213	4.1	9
111	Deep infrared pedestrian classification based on automatic image matting. *Applied Soft Computing Journal*, **2019**, 77, 484-496	7.5	8
110	Transformation of prosody in voice conversion **2017**,		8

109	Fast hypervolume approximation scheme based on a segmentation strategy. *Information Sciences*, **2020**, 509, 320-342	7.7	8
108	A Survey on Evolutionary Construction of Deep Neural Networks. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 894-912	15.6	8
107	Solving the IEEE CEC 2015 Dynamic Benchmark Problems Using Kalman Filter Based Dynamic Multiobjective Evolutionary Algorithm. *Proceedings in Adaptation, Learning and Optimization*, **2016**, 239-252	0.2	7
106	An Energy-Based Sampling Technique for Multi-Objective Restricted Boltzmann Machine. *IEEE Transactions on Evolutionary Computation*, **2013**, 17, 767-785	15.6	7
105	A Multi-Objective Multi-Colony Ant Algorithm for Solving the Berth Allocation Problem. *Studies in Computational Intelligence*, **2008**, 333-350	0.8	7
104	Solving Dynamic Multiobjective Problem via Autoencoding Evolutionary Search. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	7
103	Paired Offspring Generation for Constrained Large-Scale Multiobjective Optimization. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 448-462	15.6	7
102	Robust Environmental Sound Recognition With Sparse Key-Point Encoding and Efficient Multispike Learning. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 625-638	10.3	7
101	A Gradient-Guided Evolutionary Approach to Training Deep Neural Networks. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	7
100	A Dispatching rule based Genetic Algorithm for Order Acceptance and Scheduling **2015**,		6
99	Competitive Swarm Optimizer with Mutated Agents for Finding Optimal Designs for Nonlinear Regression Models with Multiple Interacting Factors. *Memetic Computing*, **2020**, 12, 219-233	3.4	6
98	Genetic Programming for Job Shop Scheduling. *Studies in Computational Intelligence*, **2019**, 143-167	0.8	6
97	A Spiking Neural Network Model for Sound Recognition. *Communications in Computer and Information Science*, **2017**, 584-594	0.3	6
96	Multiway analysis of EEG artifacts based on Block Term Decomposition **2016**,		6
95	An Opposition-based Self-adaptive Hybridized Differential Evolution Algorithm for Multi-objective Optimization (OSADE). *Proceedings in Adaptation, Learning and Optimization*, **2015**, 447-461	0.2	6
94	Evolving Deep Neural Networks via Cooperative Coevolution With Backpropagation. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 420-434	10.3	6
93	A Multiobjective Framework for Many-Objective Optimization. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	6
92	Solving dynamic multi-objective optimization problems via support vector machine **2018**,		6

91	Automatic Microstructure Defect Detection of Ti-6Al-4V Titanium Alloy by Regions-Based Graph. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2017**, 1, 87-96	4.1	5
90	An Evolutionary Constraint-Handling Technique for Parametric Optimization of a Cancer Immunotherapy Model. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2019**, 3, 151-162	4.1	5
89	Reliability evaluation of power-generating systems including time-dependent sources based on binary particle swarm optimization **2007**,		5
88	Multiobjective Evolutionary Neural Networks for Time Series Forecasting **2007**, 346-360		5
87	A Novel Diversity Maintenance Scheme for Evolutionary Multi-objective Optimization. *Lecture Notes in Computer Science*, **2013**, 270-277	0.9	5
86	Machine Learning Enhanced Multi-Objective Evolutionary Algorithm Based on Decomposition. *Lecture Notes in Computer Science*, **2013**, 553-560	0.9	5
85	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-17	7.3	5
84	Large-Scale optimization via Evolutionary Multitasking assisted Random Embedding **2020**,		5
83	QoS-Aware Web Service Selection with Internal Complementarity. *IEEE Transactions on Services Computing*, **2019**, 12, 276-289	4.8	5
82	Constructing Accurate and Efficient Deep Spiking Neural Networks With Double-Threshold and Augmented Schemes. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	5
81	Toward Efficient Processing and Learning With Spikes: New Approaches for Multispike Learning. *IEEE Transactions on Cybernetics*, **2020**,	10.2	4
80	On the analysis and evaluation of prosody conversion techniques **2017**,		4
79	Dynamic Evolutionary Multi-objective Optimization. *Studies in Computational Intelligence*, **2009**, 125-152	0.8	4
78	Probabilistic Based Evolutionary Optimizers in Bi-objective Travelling Salesman Problem. *Lecture Notes in Computer Science*, **2010**, 588-592	0.9	4
77	A Bi-Objective Constrained Robust Gate Assignment Problem: Formulation, Instances and Algorithm. *IEEE Transactions on Cybernetics*, **2021**, 51, 4488-4500	10.2	4
76	Towards Faster Vehicle Routing by Transferring Knowledge From Customer Representation. *IEEE Transactions on Intelligent Transportation Systems*, **2020**, 1-14	6.1	4
75	A novel grid-based differential evolution (DE) algorithm for many-objective optimization **2016**,		4
74	Hyperspectral Endmember Extraction by (□+ □)Multiobjective Differential Evolution Algorithm Based on Ranking Multiple Mutations. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 2352-2364	8.1	4

73	Progressive Tandem Learning for Pattern Recognition with Deep Spiking Neural Networks. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	4
72	An Intelligent Packing Programming for Space Station Extravehicular Missions. *IEEE Computational Intelligence Magazine*, **2017**, 12, 38-47	5.6	3
71	Adaptive charting genetic programming for dynamic flexible job shop scheduling **2018**,		3
70	Decomposition based dominance relationship for evolutionary many-objective algorithm **2017**,		3
69	Evolutionary Architectural Search for Generative Adversarial Networks. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2022**, 1-12	4.1	3
68	Graph-Based Class-Imbalance Learning With Label Enhancement.. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	3
67	A Fuzzy Decomposition-Based Multi/Many-Objective Evolutionary Algorithm. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	3
66	Improving Deep Learning based Optical Character Recognition via Neural Architecture Search **2020**,		3
65	Identification of Autistic Risk Candidate Genes and Toxic Chemicals via Multilabel Learning. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 3971-3984	10.3	3
64	Gate-Layer Autoencoders with Application to Incomplete EEG Signal Recovery **2019**,		3
63	Concept Drift-Tolerant Transfer Learning in Dynamic Environments. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	3
62	Temporal Learning in Multilayer Spiking Neural Networks Through Construction of Causal Connections. *Intelligent Systems Reference Library*, **2017**, 115-129	0.8	2
61	A Spiking Neural Network Model for Associative Memory Using Temporal Codes. *Proceedings in Adaptation, Learning and Optimization*, **2015**, 561-572	0.2	2
60	A novel Differential Evolution (DE) algorithm for multi-objective optimization **2014**,		2
59	An investigation on sampling technique for multi-objective restricted Boltzmann machine **2010**,		2
58	Public Goods Provision: An Evolutionary Game Theoretic Study Under Asymmetric Information. *IEEE Transactions on Games*, **2009**, 1, 105-120		2
57	A Comprehensive Competitive Swarm Optimizer for Large-Scale Multiobjective Optimization. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-14	7.3	2
56	Contrastive Learning Assisted-Alignment for Partial Domain Adaptation.. *IEEE Transactions on Neural Networks and Learning Systems*, **2022**, PP,	10.3	2

55	A Multi-Variation Multifactorial Evolutionary Algorithm for Large-Scale Multi-Objective Optimization. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	2
54	Adequacy of Empirical Performance Assessment for Multiobjective Evolutionary Optimizer **2007**, 893-907		2
53	Learning From Weakly Labeled Data Based on Manifold Regularized Sparse Model. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	2
52	A Multifactorial Optimization Framework Based on Adaptive Intertask Coordinate System. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	2
51	A Variable Importance-Based Differential Evolution for Large-Scale Multiobjective Optimization. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	2
50	Manifold Interpolation for Large-Scale Multiobjective Optimization via Generative Adversarial Networks. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	2
49	Temporal Encoding and Multispike Learning Framework for Efficient Recognition of Visual Patterns. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	2
48	Weighted Gate Layer Autoencoders. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	2
47	Rapid Feedforward Computation by Temporal Encoding and Learning with Spiking Neurons. *Intelligent Systems Reference Library*, **2017**, 19-41	0.8	1
46	Solving Dynamic Multi-objective Optimization Problems Using Incremental Support Vector Machine **2019**,		1
45	A New Framework for Self-adapting Control Parameters in Multi-objective Optimization **2015**,		1
44	Computational Intelligence for Brain Computer Interface [Guest Editorial]. *IEEE Computational Intelligence Magazine*, **2016**, 11, 18-18	5.6	1
43	Solving Vehicle Routing Problem with Stochastic Demand Using Multi-objective Evolutionary Algorithm **2014**,		1
42	Learning believable game agents using sensor noise and action histogram. *Memetic Computing*, **2014**, 6, 215-232	3.4	1
41	Diversity preservation with hybrid recombination for evolutionary multiobjective optimization **2014**,		1
40	A hierarchical organized memory model using spiking neurons **2013**,		1
39	A hippocampus CA3 spiking neural network model for storage and retrieval of sequential memory **2013**,		1
38	Preface for the special volume on Computational Intelligence in Scheduling. *Annals of Operations Research*, **2010**, 180, 1-2	3.2	1

37	A memetic evolutionary search algorithm with variable length chromosome for rule extraction. *Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics*, **2008**,	2	1
36	Designing a Recurrent Neural Network-based Controller for Gyro-Mirror Line-of-Sight Stabilization System using an Artificial Immune Algorithm. *Studies in Computational Intelligence*, **2007**, 189-209	0.8	1
35	Solving large-scale multiobjective optimization via the probabilistic prediction model. *Memetic Computing*,1	3.4	1
34	Molecular Dynamics Optimizer **2007**, 302-316		1
33	Optimizing Niche Center for Multimodal Optimization Problems.. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	1
32	A Spiking Neural Network System for Robust Sequence Recognition. *Intelligent Systems Reference Library*, **2017**, 89-113	0.8	1
31	Multi-Task Learning for Efficient Diagnosis of ASD and ADHD using Resting-State fMRI Data **2020**,		1
30	A decomposition-based evolutionary algorithm for scalable multi/many-objective optimization. *Memetic Computing*, **2021**, 13, 413-432	3.4	1
29	. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 492-507	15.6	1
28	Evolutionary Dynamic Multi-objective Optimization via Regression Transfer Learning **2019**,		1
27	Transfer Learning Based Parallel Evolutionary Algorithm Framework for Bi-Level Optimization. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	1
26	Real-Time Path-Generation and Path-Following Using an Interoperable Multi-Agent Framework. *Unmanned Systems*, **2018**, 06, 231-250	3	1
25	A survey, taxonomy and progress evaluation of three decades of swarm optimisation. *Artificial Intelligence Review*,1	9.7	0
24	Application of Precise-Spike-Driven Rule in Spiking Neural Networks for Optical Character Recognition. *Proceedings in Adaptation, Learning and Optimization*, **2015**, 65-75	0.2	0
23	Objective-Domain Dual Decomposition: An Effective Approach to Optimizing Partially Differentiable Objective Functions. *IEEE Transactions on Cybernetics*, **2020**, 50, 923-934	10.2	0
22	Towards Large-Scale Evolutionary Multi-Tasking: A GPU-Based Paradigm. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	0
21	HuRAI: A brain-inspired computational model for human-robot auditory interface. *Neurocomputing*, **2021**, 465, 103-113	5.4	0
20	A Hierarchically Organized Memory Model with Temporal Population Coding. *Intelligent Systems Reference Library*, **2017**, 131-152	0.8	

19	Precise-Spike-Driven Synaptic Plasticity for Hetero Association of Spatiotemporal Spike Patterns. *Intelligent Systems Reference Library*, **2017**, 65-87	0.8
18	Spiking Neuron Based Cognitive Memory Model. *Intelligent Systems Reference Library*, **2017**, 153-172	0.8
17	Feed Optimization for Fluidized Catalytic Cracking using a Multi-Objective Evolutionary Algorithm. *Advances in Process Systems Engineering*, **2017**, 291-313	
16	A Novel Multi-objective Optimization Framework Combining NSGA-II and MOEA/D. *Proceedings in Adaptation, Learning and Optimization*, **2015**, 227-237	0.2
15	Special Issue of BICS 2016. *Cognitive Computation*, **2018**, 10, 282-283	4.4
14	Type-2 Fuzzy Logic - Plodding on Steadily and Staying Relevant [Editor's Remarks]. *IEEE Computational Intelligence Magazine*, **2012**, 7, 2-8	5.6
13	CIS Publication Spotlight [Publication Spotlight]. *IEEE Computational Intelligence Magazine*, **2017**, 12, 6-9	5.6
12	CIS Publication Spotlight [Publication Spotlight]. *IEEE Computational Intelligence Magazine*, **2015**, 10, 5-7	5.6
11	Evolutionary Complex Engineering Optimization [Editor's Remarks]. *IEEE Computational Intelligence Magazine*, **2013**, 8, 2-6	5.6
10	Nothing's Too Small to Have an Impact [Editor's Remarks]. *IEEE Computational Intelligence Magazine*, **2011**, 6, 2-2	5.6
9	'Tis the Season to be Healthy! [Editor's Remarks]. *IEEE Computational Intelligence Magazine*, **2011**, 6, 2-10	5.6
8	Propelling Bioinformatics a Notch Higher [Editor's Remarks]. *IEEE Computational Intelligence Magazine*, **2012**, 7, 2-12	5.6
7	A Multi-Objective Evolutionary Algorithm for Channel Routing Problems. *Studies in Computational Intelligence*, **2007**, 405-436	0.8
6	A Spike-Timing Based Integrated Model for Pattern Recognition. *Intelligent Systems Reference Library*, **2017**, 43-63	0.8
5	Feed Optimization for Fluidized Catalytic Cracking using a Multi-Objective Evolutionary Algorithm. *Advances in Process Systems Engineering*, **2008**, 277-299	
4	A Novel Hybrid Multi-objective Optimization Framework: Rotating the Objective Space. *Lecture Notes in Computer Science*, **2014**, 192-203	0.9
3	An Automatic Sound Classification Framework with Non-volatile Memory **2021**, 415-438	
2	IEEE CIS VP-Publications Vision Statement [Society Briefs]. *IEEE Computational Intelligence Magazine*, **2021**, 16, 5-6	5.6

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