

Serkan Kiranyaz

List of Publications by Year in descending order

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Version: 2024-02-01

186
papers

10,136
citations

109321

35
h-index

39675

94
g-index

190
all docs

190
docs citations

190
times ranked

7727
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Patient-Specific ECG Classification by 1-D Convolutional Neural Networks. IEEE Transactions on Biomedical Engineering, 2016, 63, 664-675.	4.2	1,266
2	1D convolutional neural networks and applications: A survey. Mechanical Systems and Signal Processing, 2021, 151, 107398.	8.0	1,005
3	Real-Time Motor Fault Detection by 1-D Convolutional Neural Networks. IEEE Transactions on Industrial Electronics, 2016, 63, 7067-7075.	7.9	971
4	Real-time vibration-based structural damage detection using one-dimensional convolutional neural networks. Journal of Sound and Vibration, 2017, 388, 154-170.	3.9	827
5	A review of vibration-based damage detection in civil structures: From traditional methods to Machine Learning and Deep Learning applications. Mechanical Systems and Signal Processing, 2021, 147, 107077.	8.0	569
6	Exploring the effect of image enhancement techniques on COVID-19 detection using chest X-ray images. Computers in Biology and Medicine, 2021, 132, 104319.	7.0	521
7	A Generic and Robust System for Automated Patient-Specific Classification of ECG Signals. IEEE Transactions on Biomedical Engineering, 2009, 56, 1415-1426.	4.2	396
8	A Generic Intelligent Bearing Fault Diagnosis System Using Compact Adaptive 1D CNN Classifier. Journal of Signal Processing Systems, 2019, 91, 179-189.	2.1	391
9	Evolutionary artificial neural networks by multi-dimensional particle swarm optimization. Neural Networks, 2009, 22, 1448-1462.	5.9	232
10	Real-Time Fault Detection and Identification for MMC Using 1-D Convolutional Neural Networks. IEEE Transactions on Industrial Electronics, 2019, 66, 8760-8771.	7.9	193
11	Emergent Properties of Microbial Activity in Heterogeneous Soil Microenvironments: Different Research Approaches Are Slowly Converging, Yet Major Challenges Remain. Frontiers in Microbiology, 2018, 9, 1929.	3.5	168
12	1-D Convolutional Neural Networks for Signal Processing Applications. , 2019, , .		167
13	Wireless and real-time structural damage detection: A novel decentralized method for wireless sensor networks. Journal of Sound and Vibration, 2018, 424, 158-172.	3.9	146
14	Integrating Color Features in Polarimetric SAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2197-2216.	6.3	142
15	Convolutional Neural Networks for patient-specific ECG classification. , 2015, 2015, 2608-11.		139
16	Analysis of High-Dimensional Phase Space via Poincaré Section for Patient-Specific Seizure Detection. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 386-398.	4.9	108
17	Fractional Particle Swarm Optimization in Multidimensional Search Space. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 298-319.	5.0	102
18	Fault Detection and Severity Identification of Ball Bearings by Online Condition Monitoring. IEEE Transactions on Industrial Electronics, 2019, 66, 8136-8147.	7.9	87

#	ARTICLE	IF	CITATIONS
19	COVID-19 infection localization and severity grading from chest X-ray images. Computers in Biology and Medicine, 2021, 139, 105002.	7.0	85
20	Personalized Monitoring and Advance Warning System for Cardiac Arrhythmias. Scientific Reports, 2017, 7, 9270.	3.3	82
21	Detection and Severity Classification of COVID-19 in CT Images Using Deep Learning. Diagnostics, 2021, 11, 893.	2.6	78
22	Detection of Atrial Fibrillation in ECG Hand-held Devices Using a Random Forest Classifier. , 0, , .		76
23	Convolutional Sparse Support Estimator-Based COVID-19 Recognition From X-Ray Images. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1810-1820.	11.3	72
24	Automated patient-specific classification of long-term Electroencephalography. Journal of Biomedical Informatics, 2014, 49, 16-31.	4.3	66
25	Multidimensional Particle Swarm Optimization for Machine Learning and Pattern Recognition. Adaptation, Learning, and Optimization, 2014, , .	0.6	61
26	COVID-19 infection map generation and detection from chest X-ray images. Health Information Science and Systems, 2021, 9, 15.	5.2	61
27	Long-term epileptic EEG classification via 2D mapping and textural features. Expert Systems With Applications, 2015, 42, 7175-7185.	7.6	57
28	A machine learning model for early detection of diabetic foot using thermogram images. Computers in Biology and Medicine, 2021, 137, 104838.	7.0	56
29	Operational neural networks. Neural Computing and Applications, 2020, 32, 6645-6668.	5.6	52
30	A generic audio classification and segmentation approach for multimedia indexing and retrieval. IEEE Transactions on Audio Speech and Language Processing, 2006, 14, 1062-1081.	3.2	49
31	Structural Damage Detection in Real Time: Implementation of 1D Convolutional Neural Networks for SHM Applications. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 49-54.	0.5	49
32	Multi-dimensional particle swarm optimization in dynamic environments. Expert Systems With Applications, 2011, 38, 2212-2223.	7.6	46
33	Self-organized operational neural networks for severe image restoration problems. Neural Networks, 2021, 135, 201-211.	5.9	45
34	Personalized long-term ECG classification: A systematic approach. Expert Systems With Applications, 2011, 38, 3220-3226.	7.6	44
35	Heterogeneous Multilayer Generalized Operational Perceptron. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 710-724.	11.3	43
36	Patient-Specific Seizure Detection Using Nonlinear Dynamics and Nullclines. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 543-555.	6.3	42

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37	Evaluation of global and local training techniques over feed-forward neural network architecture spaces for computer-aided medical diagnosis. <i>Expert Systems With Applications</i> , 2010, 37, 8450-8461.	7.6	40
38	Automatic Object Segmentation by Quantum Cuts. , 2014, , .		39
39	Robust R-Peak Detection in Low-Quality Holter ECGs Using 1D Convolutional Neural Network. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 119-128.	4.2	39
40	Self-organized Operational Neural Networks with Generative Neurons. <i>Neural Networks</i> , 2021, 140, 294-308.	5.9	38
41	Quantum mechanics in computer vision: Automatic object extraction. , 2013, , .		37
42	Training Radial Basis Function Neural Networks for Classification via Class-Specific Clustering. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016, 27, 2458-2471.	11.3	36
43	Classification and retrieval on macroinvertebrate image databases. <i>Computers in Biology and Medicine</i> , 2011, 41, 463-472.	7.0	35
44	An Intelligent and Low-Cost Eye-Tracking System for Motorized Wheelchair Control. <i>Sensors</i> , 2020, 20, 3936.	3.8	35
45	Multimodal EEG and Keystroke Dynamics Based Biometric System Using Machine Learning Algorithms. <i>IEEE Access</i> , 2021, 9, 94625-94643.	4.2	35
46	Progressive Operational Perceptrons. <i>Neurocomputing</i> , 2017, 224, 142-154.	5.9	34
47	Perceptual color descriptor based on spatial distribution: A top-down approach. <i>Image and Vision Computing</i> , 2010, 28, 1309-1326.	4.5	33
48	Real-time phonocardiogram anomaly detection by adaptive 1D Convolutional Neural Networks. <i>Neurocomputing</i> , 2020, 411, 291-301.	5.9	33
49	Hierarchical Cellular Tree: An Efficient Indexing Scheme for Content-Based Retrieval on Multimedia Databases. <i>IEEE Transactions on Multimedia</i> , 2007, 9, 102-119.	7.2	32
50	Early Detection of Myocardial Infarction in Low-Quality Echocardiography. <i>IEEE Access</i> , 2021, 9, 34442-34453.	4.2	32
51	Real-Time Patient-Specific ECG Classification by 1D Self-Operational Neural Networks. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1788-1801.	4.2	31
52	Real-Time Glaucoma Detection From Digital Fundus Images Using Self-ONNs. <i>IEEE Access</i> , 2021, 9, 140031-140041.	4.2	30
53	Deep Learning for Reliable Classification of COVID-19, MERS, and SARS from Chest X-ray Images. <i>Cognitive Computation</i> , 2022, 14, 1752-1772.	5.2	29
54	Evaluating the performance of artificial neural networks for the classification of freshwater benthic macroinvertebrates. <i>Ecological Informatics</i> , 2014, 20, 1-12.	5.2	27

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55	Advance Warning Methodologies for COVID-19 Using Chest X-Ray Images. IEEE Access, 2021, 9, 41052-41065.	4.2	27
56	Automatic Object Extraction Over Multiscale Edge Field for Multimedia Retrieval. IEEE Transactions on Image Processing, 2006, 15, 3759-3772.	9.8	25
57	Optimization of linear zigzag insert metastructures for low-frequency vibration attenuation using genetic algorithms. Mechanical Systems and Signal Processing, 2017, 84, 625-641.	8.0	25
58	Benchmark database for fine-grained image classification of benthic macroinvertebrates. Image and Vision Computing, 2018, 78, 73-83.	4.5	25
59	Evolutionary RBF classifier for polarimetric SAR images. Expert Systems With Applications, 2012, 39, 4710-4717.	7.6	24
60	Particle Swarm Optimization. Adaptation, Learning, and Optimization, 2014, , 45-82.	0.6	24
61	Classification of dual- and single polarized SAR images by incorporating visual features. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 90, 10-22.	11.1	24
62	A perceptual scheme for fully automatic video shot boundary detection. Signal Processing: Image Communication, 2014, 29, 410-423.	3.2	23
63	Spatiotemporal Saliency Estimation by Spectral Foreground Detection. IEEE Transactions on Multimedia, 2018, 20, 82-95.	7.2	21
64	Dual and Single Polarized SAR Image Classification Using Compact Convolutional Neural Networks. Remote Sensing, 2019, 11, 1340.	4.0	21
65	Convolutional Neural Networks for Real-Time and Wireless Damage Detection. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 129-136.	0.5	21
66	Visual saliency by extended quantum cuts. , 2015, , .		20
67	Competitive Quantization for Approximate Nearest Neighbor Search. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2884-2894.	5.7	20
68	Robust Peak Detection for Holter ECGs by Self-Organized Operational Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9363-9374.	11.3	20
69	Automated patient-specific classification of premature ventricular contractions. , 2008, 2008, 5474-7.		19
70	Collective Network of Binary Classifier Framework for Polarimetric SAR Image Classification: An Evolutionary Approach. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1169-1186.	5.0	18
71	A Novel Machine Learning Approach for Severity Classification of Diabetic Foot Complications Using Thermogram Images. Sensors, 2022, 22, 4249.	3.8	18
72	Semi-Supervised Learning for Ill-Posed Polarimetric SAR Classification. Remote Sensing, 2014, 6, 4801-4830.	4.0	17

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73	Limited random walk algorithm for big graph data clustering. Journal of Big Data, 2016, 3, .	11.0	17
74	Progressive Operational Perceptrons with Memory. Neurocomputing, 2020, 379, 172-181.	5.9	17
75	Human experts vs. machines in taxa recognition. Signal Processing: Image Communication, 2020, 87, 115917.	3.2	17
76	Classification of polarimetric SAR images using compact convolutional neural networks. GIScience and Remote Sensing, 2021, 58, 28-47.	5.9	17
77	A Social Distance Estimation and Crowd Monitoring System for Surveillance Cameras. Sensors, 2022, 22, 418.	3.8	17
78	Network of evolutionary binary classifiers for classification and retrieval in macroinvertebrate databases. , 2010, , .		16
79	Learning graph affinities for spectral graph-based salient object detection. Pattern Recognition, 2017, 64, 159-167.	8.1	16
80	A Novel UAV-Aided Network Architecture Using Wi-Fi Direct. IEEE Access, 2019, 7, 67305-67318.	4.2	16
81	EDITH : ECG Biometrics Aided by Deep Learning for Reliable Individual Authentication. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 928-940.	4.9	16
82	Generalized model of biological neural networks: Progressive operational perceptrons. , 2017, , .		14
83	Knowledge Transfer for Face Verification Using Heterogeneous Generalized Operational Perceptrons. , 2019, , .		14
84	Face segmentation in thumbnail images by data-adaptive convolutional segmentation networks. , 2016, , .		13
85	K-Subspaces Quantization for Approximate Nearest Neighbor Search. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 1722-1733.	5.7	13
86	Particle swarm clustering fitness evaluation with computational centroids. Swarm and Evolutionary Computation, 2017, 34, 103-118.	8.1	13
87	Left Ventricular Wall Motion Estimation by Active Polynomials for Acute Myocardial Infarction Detection. IEEE Access, 2020, 8, 210301-210317.	4.2	12
88	Early Bearing Fault Diagnosis of Rotating Machinery by 1D Self-Organized Operational Neural Networks. IEEE Access, 2021, 9, 139260-139270.	4.2	12
89	Robust biometric system using session invariant multimodal EEG and keystroke dynamics by the ensemble of self-ONNs. Computers in Biology and Medicine, 2022, 142, 105238.	7.0	12
90	Global ECG Classification by Self-Operational Neural Networks With Feature Injection. IEEE Transactions on Biomedical Engineering, 2023, 70, 205-215.	4.2	12

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91	Evaluation of classifiers for polarimetric SAR classification. , 2013, , .		11
92	Data Enrichment in Fine-Grained Classification of Aquatic Macroinvertebrates. , 2016, , .		11
93	Exploiting heterogeneity in operational neural networks by synaptic plasticity. Neural Computing and Applications, 2021, 33, 7997-8015.	5.6	11
94	Machine Learning-Based Diabetic Neuropathy and Previous Foot Ulceration Patients Detection Using Electromyography and Ground Reaction Forces during Gait. Sensors, 2022, 22, 3507.	3.8	11
95	PyGOP: A Python library for Generalized Operational Perceptron algorithms. Knowledge-Based Systems, 2019, 182, 104801.	7.1	10
96	Real-time throughput prediction for cognitive Wi-Fi networks. Journal of Network and Computer Applications, 2020, 150, 102499.	9.1	10
97	Self-Organized Variational Autoencoders (Self-Vae) For Learned Image Compression. , 2021, , .		10
98	Motion Artifacts Correction From EEG and fNIRS Signals Using Novel Multiresolution Analysis. IEEE Access, 2022, 10, 29760-29777.	4.2	10
99	Motion Artifacts Correction from Single-Channel EEG and fNIRS Signals Using Novel Wavelet Packet Decomposition in Combination with Canonical Correlation Analysis. Sensors, 2022, 22, 3169.	3.8	10
100	An evolutionary feature synthesis approach for content-based audio retrieval. Eurasip Journal on Audio, Speech, and Music Processing, 2012, 2012, .	2.1	9
101	Outlier edge detection using random graph generation models and applications. Journal of Big Data, 2017, 4, .	11.0	9
102	Multi-dimensional particle swarm optimization for dynamic environments. , 2008, , .		8
103	1D Convolutional Neural Networks Versus Automatic Classifiers for Known LPI Radar Signals Under White Gaussian Noise. IEEE Access, 2020, 8, 180534-180543.	4.2	8
104	An Efficient Image Retrieval Scheme on Java Enabled Mobile Devices. , 2005, , .		7
105	Perceptual Dominant Color Extraction by Multidimensional Particle Swarm Optimization. Eurasip Journal on Advances in Signal Processing, 2010, 2009, .	1.7	7
106	Incremental Learning with Support Vector Data Description. , 2014, , .		7
107	Sleep stage classification using sparse rational decomposition of single channel EEG records. , 2015, , .		7
108	A Generic Shape/Texture Descriptor Over Multiscale Edge Field: 2-D Walking Ant Histogram. IEEE Transactions on Image Processing, 2008, 17, 377-391.	9.8	6

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109	Stochastic approximation driven particle swarm optimization with simultaneous perturbation "Who will guide the guide?. Applied Soft Computing Journal, 2011, 11, 2334-2347.	7.2	6
110	ShakeMe: Key Generation from Shared Motion. , 2015, , .		6
111	Structural Health Monitoring with Self-Organizing Maps and Artificial Neural Networks. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 237-246.	0.5	6
112	Self-Organized Residual Blocks For Image Super-Resolution. , 2021, , .		6
113	Structural Damage Detection in Civil Engineering with Machine Learning: Current State of the Art. Conference Proceedings of the Society for Experimental Mechanics, 2022, , 223-229.	0.5	6
114	An Overview of Deep Learning Methods Used in Vibration-Based Damage Detection in Civil Engineering. Conference Proceedings of the Society for Experimental Mechanics, 2022, , 93-98.	0.5	6
115	Performance Analysis of Conventional Machine Learning Algorithms for Diabetic Sensorimotor Polyneuropathy Severity Classification Using Nerve Conduction Studies. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.7	6
116	An efficient approach for boundary based corner detection by maximizing bending ratio and curvature. , 2007, , .		5
117	Dominant Color Extraction Based on Dynamic Clustering by Multi-dimensional Particle Swarm Optimization. , 2009, , .		5
118	Robust scene classification by Gist with angular radial partitioning. , 2012, , .		5
119	An HMM-based spectrum access algorithm for cognitive radio systems. , 2015, , .		5
120	Learned vs. engineered features for fine-grained classification of aquatic macroinvertebrates. , 2016, , .		5
121	Learning to rank salient segments extracted by multispectral Quantum Cuts. Pattern Recognition Letters, 2016, 72, 91-99.	4.2	5
122	Extended quantum cuts for unsupervised salient object extraction. Multimedia Tools and Applications, 2017, 76, 10443-10463.	3.9	5
123	The effect of automated taxa identification errors on biological indices. Expert Systems With Applications, 2017, 72, 108-120.	7.6	5
124	One-Dimensional Convolutional Neural Networks for Real-Time Damage Detection of Rotating Machinery. Conference Proceedings of the Society for Experimental Mechanics, 2022, , 73-83.	0.5	5
125	Convolutional Sparse Support Estimator Network (CSEN): From Energy-Efficient Support Estimation to Learning-Aided Compressive Sensing. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 290-304.	11.3	5
126	Fully automated 2D and 3D convolutional neural networks pipeline for video segmentation and myocardial infarction detection in echocardiography. Multimedia Tools and Applications, 2022, 81, 37417-37439.	3.9	5

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127	Audio-based queries for video retrieval over Java enabled mobile devices. , 2006, , .		4
128	Unsupervised design of Artificial Neural Networks via multi-dimensional Particle Swarm Optimization. , 2008, , .		4
129	Perceptual color descriptor based on a spatial distribution model: Proximity histograms. , 2009, , .		4
130	Multi-dimensional Particle Swarm Optimization for dynamic clustering. , 2009, , .		4
131	Multi-dimensional evolutionary feature synthesis for content-based image retrieval. , 2011, , .		4
132	Dynamic and scalable audio classification by collective network of binary classifiers framework: An evolutionary approach. Neural Networks, 2012, 34, 80-95.	5.9	4
133	Polarimetric SAR classification using visual color features extracted over pseudo color images. , 2013, , .		4
134	Optimization Techniques: An Overview. Adaptation, Learning, and Optimization, 2014, , 13-44.	0.6	4
135	An Optimized k-NN Approach for Classification on Imbalanced Datasets with Missing Data. Lecture Notes in Computer Science, 2016, , 387-392.	1.3	4
136	A k-nearest neighbor multilabel ranking algorithm with application to content-based image retrieval. , 2017, , .		4
137	Comparison of polarimetric SAR features for terrain classification using incremental training. , 2017, , .		4
138	Speech Command Recognition in Computationally Constrained Environments with a Quadratic Self-Organized Operational Layer. , 2021, , .		4
139	Bm3d Vs 2-Layer Onn. , 2021, , .		4
140	Multi-dimensional Particle Swarm Optimization. Adaptation, Learning, and Optimization, 2014, , 83-99.	0.6	4
141	3D Quantum Cuts for automatic segmentation of porous media in tomography images. Computers and Geosciences, 2022, 159, 105017.	4.2	4
142	Classification of holter registers by dynamic clustering using multi-dimensional particle swarm optimization. , 2010, 2010, 4695-8.		3
143	Classification of Polarimetric SAR Images Using Evolutionary RBF Networks. , 2010, , .		3
144	Polarimetric SAR images classification using collective network of binary classifiers. , 2011, , .		3

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145	M-PCA Binary Embedding for Approximate Nearest Neighbor Search. , 2015, , .		3
146	Feature synthesis for image classification and retrieval via one-against-all perceptrons. Neural Computing and Applications, 2018, 29, 943-957.	5.6	3
147	Performance Comparison of Learned vs. Engineered Features for Polarimetric SAR Terrain Classification. , 2019, , .		3
148	Multifrequency Polsar Image Classification Using Dual-Band 1D Convolutional Neural Networks. , 2020, , .		3
149	Automatic Sleep Arousal Detection Using Multimodal Biosignal Analysis. , 0, , .		3
150	<title>Content-based image retrieval on mobile devices</title>. , 2005, 5684, 255.		2
151	A personalized classification system for Holter registers. , 2009, 2009, 1883-8.		2
152	Collective network of evolutionary binary classifiers for content-based image retrieval. , 2011, , .		2
153	Vibration Suppression in Metastructures Using Zigzag Inserts Optimized by Genetic Algorithms. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 275-283.	0.5	2
154	Data Clustering Based on Community Structure in Mutual k-Nearest Neighbor Graph. , 2018, , .		2
155	Generalized Operational Classifiers for Material Identification. , 2020, , .		2
156	A New Benchmark Problem for Structural Damage Detection: Bolt Loosening Tests on a Large-Scale Laboratory Structure. Conference Proceedings of the Society for Experimental Mechanics, 2022, , 15-22.	0.5	2
157	Biosignal time-series analysis. , 2022, , 491-539.		2
158	Stochastic approximation driven Particle Swarm Optimization. , 2009, , .		1
159	Content-based audio classification using collective network of binary classifiers. , 2011, , .		1
160	Evolutionary feature synthesis for content-based audio retrieval. , 2013, , .		1
161	Evolutionary feature synthesis by multi-dimensional particle swarm optimization. , 2014, , .		1
162	A vector quantization based k-NN approach for large-scale image classification. , 2016, , .		1

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163	Joint K-Means quantization for Approximate Nearest Neighbor Search. , 2016, , .		1
164	Optimization on Ports Activation Towards Energy Efficient Data Center Networks. Lecture Notes in Computer Science, 2018, , 155-166.	1.3	1
165	Control of Plate Vibrations with Artificial Neural Networks and Piezoelectricity. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 293-301.	0.5	1
166	Dynamic Data Clustering Using Stochastic Approximation Driven Multi-Dimensional Particle Swarm Optimization. Lecture Notes in Computer Science, 2010, , 336-343.	1.3	1
167	Learned vs. Hand-Designed Features for ECG Beat Classification: A Comprehensive Study. IFMBE Proceedings, 2018, , 551-554.	0.3	1
168	Feature-Based Cardiac Cycle Segmentation in Phonocardiogram Recordings. , 0, , .		1
169	2D Self-organized ONN model for Handwritten Text Recognition. Applied Soft Computing Journal, 2022, 127, 109311.	7.2	1
170	Effects of Arbitrary-Shaped Regions on Texture Retrieval. , 2007, , .		0
171	Directional Spatial Color Descriptor in a Perceptual Model: Proximity Grids. Proc Int Symp Image Signal Process Anal, 2007, , .	0.0	0
172	A Directional Texture Descriptor via 2D Walking Ant Histogram. , 2007, , .		0
173	Image color content description utilizing perceptual color correlogram. , 2008, , .		0
174	Incremental evolution of collective network of binary classifier for polarimetric SAR image classification. , 2011, , .		0
175	Incremental evolution of collective network of binary classifier for content-based image classification and retrieval. , 2011, , .		0
176	Automatic object extraction based on quantum mechanics. , 2013, , .		0
177	Salient object segmentation based on linearly combined affinity graphs. , 2016, , .		0
178	Self-organizing binary encoding for Approximate Nearest Neighbor search. , 2016, , .		0
179	Acceleration Approaches for Big Data Analysis. , 2018, , .		0
180	Matlab/Simulink Modeling and Simulation of Electric Appliances Based on their Actual Current Waveforms. , 2019, , .		0

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181	Scalable Content-Based Classification and Retrieval Framework for Dynamic Commercial Image Databases. Communications in Computer and Information Science, 2012, , 382-398.	0.5	0
182	Image Classification and Retrieval by Collective Network of Binary Classifiers. Adaptation, Learning, and Optimization, 2014, , 259-294.	0.6	0
183	Personalized ECG Classification. Adaptation, Learning, and Optimization, 2014, , 231-258.	0.6	0
184	Evolutionary Artificial Neural Networks. Adaptation, Learning, and Optimization, 2014, , 187-230.	0.6	0
185	Dynamic Data Clustering. Adaptation, Learning, and Optimization, 2014, , 151-186.	0.6	0
186	Medical image analysis. , 2022, , 541-577.		0