Hojjat Adeli

List of Publications by Year
in descending order

353 papers	32,498 citations	1614 105 h-index	5536 163 g-index
365 all docs	365 docs citations	365 times ranked	15671 citing authors

#	Article	IF	Citations
1	Deep convolutional neural network for the automated detection and diagnosis of seizure using EEG signals. Computers in Biology and Medicine, 2018, 100, 270-278.	7.0	1,111
2	Analysis of EEG records in an epileptic patient using wavelet transform. Journal of Neuroscience Methods, 2003, 123, 69-87.	2.5	968
3	SPIKING NEURAL NETWORKS. International Journal of Neural Systems, 2009, 19, 295-308.	5.2	608
4	Neural Networks in Civil Engineering: 1989â€"2000. Computer-Aided Civil and Infrastructure Engineering, 2001, 16, 126-142.	9.8	600
5	A Wavelet-Chaos Methodology for Analysis of EEGs and EEG Subbands to Detect Seizure and Epilepsy. IEEE Transactions on Biomedical Engineering, 2007, 54, 205-211.	4.2	591
6	A New Approach for Health Monitoring of Structures: Terrestrial Laser Scanning. Computer-Aided Civil and Infrastructure Engineering, 2007, 22, 19-30.	9.8	477
7	Wavelet-based EEG processing for computer-aided seizure detection and epilepsy diagnosis. Seizure: the Journal of the British Epilepsy Association, 2015, 26, 56-64.	2.0	430
8	Principal Component Analysis-Enhanced Cosine Radial Basis Function Neural Network for Robust Epilepsy and Seizure Detection. IEEE Transactions on Biomedical Engineering, 2008, 55, 512-518.	4.2	427
9	Mixed-Band Wavelet-Chaos-Neural Network Methodology for Epilepsy and Epileptic Seizure Detection. IEEE Transactions on Biomedical Engineering, 2007, 54, 1545-1551.	4.2	419
10	Automated EEG-based screening of depression using deep convolutional neural network. Computer Methods and Programs in Biomedicine, 2018, 161, 103-113.	4.7	404
11	A new supervised learning algorithm for multiple spiking neural networks with application in epilepsy and seizure detection. Neural Networks, 2009, 22, 1419-1431.	5.9	385
12	Dynamic Wavelet Neural Network Model for Traffic Flow Forecasting. Journal of Transportation Engineering, 2005, 131, 771-779.	0.9	376
13	Signal Processing Techniques for Vibration-Based Health Monitoring of Smart Structures. Archives of Computational Methods in Engineering, 2016, 23, 1-15.	10.2	345
14	Improved spiking neural networks for EEG classification and epilepsy and seizure detection. Integrated Computer-Aided Engineering, 2007, 14, 187-212.	4.6	339
15	Enhanced probabilistic neural network with local decision circles: A robust classifier. Integrated Computer-Aided Engineering, 2010, 17, 197-210.	4.6	320
16	Dynamic Fuzzy Wavelet Neural Network Model for Structural System Identification. Journal of Structural Engineering, 2006, 132, 102-111.	3.4	312
17	A New Neural Dynamic Classification Algorithm. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 3074-3083.	11.3	296
18	A novel unsupervised deep learning model for global and local health condition assessment of structures. Engineering Structures, 2018, 156, 598-607.	5.3	289

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19	A dynamic ensemble learning algorithm for neural networks. Neural Computing and Applications, 2020, 32, 8675-8690.	5.6	282
20	A probabilistic neural network for earthquake magnitude prediction. Neural Networks, 2009, 22, 1018-1024.	5.9	274
21	New diagnostic EEG markers of the Alzheimer's disease using visibility graph. Journal of Neural Transmission, 2010, 117, 1099-1109.	2.8	272
22	A novel machine learning-based algorithm to detect damage in high-rise building structures. Structural Design of Tall and Special Buildings, 2017, 26, e1400.	1.9	250
23	Fractality and a Wavelet-Chaos-Neural Network Methodology for EEG-Based Diagnosis of Autistic Spectrum Disorder. Journal of Clinical Neurophysiology, 2010, 27, 328-333.	1.7	240
24	Augmented Lagrangian Genetic Algorithm for Structural Optimization. Journal of Aerospace Engineering, 1994, 7, 104-118.	1.4	231
25	Fractality analysis of frontal brain in major depressive disorder. International Journal of Psychophysiology, 2012, 85, 206-211.	1.0	228
26	Pseudospectra, MUSIC, and dynamic wavelet neural network for damage detection of highrise buildings. International Journal for Numerical Methods in Engineering, 2007, 71, 606-629.	2.8	225
27	Tuned Mass Dampers. Archives of Computational Methods in Engineering, 2013, 20, 419-431.	10.2	225
28	3D displacement measurement model for health monitoring of structures using a motion capture system. Measurement: Journal of the International Measurement Confederation, 2015, 59, 352-362.	5.0	218
29	Integrated Genetic Algorithm for Optimization of Space Structures. Journal of Aerospace Engineering, 1993, 6, 315-328.	1.4	210
30	Intrahemispheric, interhemispheric, and distal EEG coherence in Alzheimer's disease. Clinical Neurophysiology, 2011, 122, 897-906.	1.5	206
31	FEMa: a finite element machine for fast learning. Neural Computing and Applications, 2020, 32, 6393-6404.	5.6	203
32	A Novel Depression Diagnosis Index Using Nonlinear Features in EEG Signals. European Neurology, 2015, 74, 79-83.	1.4	201
33	Concurrent Genetic Algorithms for Optimization of Large Structures. Journal of Aerospace Engineering, 1994, 7, 276-296.	1.4	198
34	Fuzzy-Wavelet RBFNN Model for Freeway Incident Detection. Journal of Transportation Engineering, 2000, 126, 464-471.	0.9	198
35	Current methods in electrocardiogram characterization. Computers in Biology and Medicine, 2014, 48, 133-149.	7.0	198
36	NEURAL NETWORK MODELS FOR EARTHQUAKE MAGNITUDE PREDICTION USING MULTIPLE SEISMICITY INDICATORS. International Journal of Neural Systems, 2007, 17, 13-33.	5.2	197

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37	Wavelet-Synchronization Methodology: A New Approach for EEG-Based Diagnosis of ADHD. Clinical EEG and Neuroscience, 2010, 41, 1-10.	1.7	197
38	Smart structures: Part I—Active and semi-active control. Scientia Iranica, 2011, 18, 275-284.	0.4	196
39	Regularization Neural Network for Construction Cost Estimation. Journal of Construction Engineering and Management - ASCE, 1998, 124, 18-24.	3.8	195
40	A spatio-temporal wavelet-chaos methodology for EEG-based diagnosis of Alzheimer's disease. Neuroscience Letters, 2008, 444, 190-194.	2.1	190
41	Bayesian wavelet packet denoising for structural system identification. Structural Control and Health Monitoring, 2007, 14, 333-356.	4.0	188
42	Dynamic Wavelet Neural Network for Nonlinear Identification of Highrise Buildings. Computer-Aided Civil and Infrastructure Engineering, 2005, 20, 316-330.	9.8	185
43	Neuro-genetic algorithm for non-linear active control of structures. International Journal for Numerical Methods in Engineering, 2008, 75, 770-786.	2.8	185
44	Supervised Deep Restricted Boltzmann Machine for Estimation of Concrete. ACI Materials Journal, 2017, 114, .	0.2	184
45	Scheduling/Cost Optimization and Neural Dynamics Model for Construction. Journal of Construction Engineering and Management - ASCE, 1997, 123, 450-458.	3.8	183
46	Neural network model for rapid forecasting of freeway link travel time. Engineering Applications of Artificial Intelligence, 2003, 16, 607-613.	8.1	178
47	Distributed Genetic Algorithm for Structural Optimization. Journal of Aerospace Engineering, 1995, 8, 156-163.	1.4	176
48	A Novel Machine Learning Model for Estimation of Sale Prices of Real Estate Units. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	3.8	176
49	Wavelet Packet-Autocorrelation Function Method for Traffic Flow Pattern Analysis. Computer-Aided Civil and Infrastructure Engineering, 2004, 19, 324-337.	9.8	174
50	Nature Inspired Computing: An Overview and Some Future Directions. Cognitive Computation, 2015, 7, 706-714.	5.2	170
51	Dynamic fuzzy wavelet neuroemulator for non-linear control of irregular building structures. International Journal for Numerical Methods in Engineering, 2008, 74, 1045-1066.	2.8	169
52	Brain-computer interface technologies: from signal to action. Reviews in the Neurosciences, 2013, 24, 537-52.	2.9	169
53	Life-cycle cost optimization of steel structures. International Journal for Numerical Methods in Engineering, 2002, 55, 1451-1462.	2.8	160
54	Improved visibility graph fractality with application for the diagnosis of Autism Spectrum Disorder. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4720-4726.	2.6	160

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55	Fractality and a Wavelet-chaos-Methodology for EEG-based Diagnosis of Alzheimer Disease. Alzheimer Disease and Associated Disorders, 2011, 25, 85-92.	1.3	158
56	Bilevel Parallel Genetic Algorithms for Optimization of Large Steel Structures. Computer-Aided Civil and Infrastructure Engineering, 2001, 16, 295-304.	9.8	157
57	Fuzzy Genetic Algorithm for Optimization of Steel Structures. Journal of Structural Engineering, 2000, 126, 596-604.	3.4	156
58	System identification in structural engineering. Scientia Iranica, 2012, 19, 1355-1364.	0.4	155
59	Functional community analysis of brain: A new approach for EEG-based investigation of the brain pathology. NeuroImage, 2011, 58, 401-408.	4.2	154
60	Autism: cause factors, early diagnosis and therapies. Reviews in the Neurosciences, 2014, 25, 841-50.	2.9	152
61	Evolutionary learning based sustainable strain sensing model for structural health monitoring of high-rise buildings. Applied Soft Computing Journal, 2017, 58, 576-585.	7.2	149
62	Probabilistic neural networks for diagnosis of Alzheimer's disease using conventional and wavelet coherence. Journal of Neuroscience Methods, 2011, 197, 165-170.	2.5	148
63	Graph Theoretical Analysis of Organization of Functional Brain Networks in ADHD. Clinical EEG and Neuroscience, 2012, 43, 5-13.	1.7	148
64	Recurrent neural network model with Bayesian training and mutual information for response prediction of large buildings. Engineering Structures, 2019, 178, 603-615.	5.3	148
65	Recurrent Neural Network for Approximate Earthquake Time and Location Prediction Using Multiple Seismicity Indicators. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 280-292.	9.8	146
66	Visibility graph similarity: A new measure of generalized synchronization in coupled dynamic systems. Physica D: Nonlinear Phenomena, 2012, 241, 326-332.	2.8	146
67	Novel Machine-Learning Model for Estimating Construction Costs Considering Economic Variables and Indexes. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	3.8	146
68	Computer-Aided Diagnosis of Depression Using EEG Signals. European Neurology, 2015, 73, 329-336.	1.4	144
69	Comparison of Fuzzy-Wavelet Radial Basis Function Neural Network Freeway Incident Detection Model with California Algorithm. Journal of Transportation Engineering, 2002, 128, 21-30.	0.9	142
70	A new music-empirical wavelet transform methodology for time–frequency analysis of noisy nonlinear and non-stationary signals. , 2015, 45, 55-68.		141
71	Fuzzy Synchronization Likelihood-wavelet methodology for diagnosis of autism spectrum disorder. Journal of Neuroscience Methods, 2012, 211, 203-209.	2.5	140
72	Graph Theory and Brain Connectivity in Alzheimer's Disease. Neuroscientist, 2017, 23, 616-626.	3.5	139

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73	Neuro-Fuzzy Logic Model for Freeway Work Zone Capacity Estimation. Journal of Transportation Engineering, 2003, 129, 484-493.	0.9	137
74	Synchrosqueezed wavelet transform-fractality model for locating, detecting, and quantifying damage in smart highrise building structures. Smart Materials and Structures, 2015, 24, 065034.	3.5	136
75	A neural dynamics model for structural optimization—Theory. Computers and Structures, 1995, 57, 383-390.	4.4	135
76	An adaptive conjugate gradient learning algorithm for efficient training of neural networks. Applied Mathematics and Computation, 1994, 62, 81-102.	2.2	134
77	Cost Optimization of Concrete Structures. Journal of Structural Engineering, 1998, 124, 570-578.	3.4	134
78	Fuzzy Discrete Multicriteria Cost Optimization of Steel Structures. Journal of Structural Engineering, 2000, 126, 1339-1347.	3.4	132
79	Wavelet-Clustering-Neural Network Model for Freeway Incident Detection. Computer-Aided Civil and Infrastructure Engineering, 2003, 18, 325-338.	9.8	129
80	Smart structures: Part II — Hybrid control systems and control strategies. Scientia Iranica, 2011, 18, 285-295.	0.4	128
81	New methodology for modal parameters identification of smart civil structures using ambient vibrations and synchrosqueezed wavelet transform. Engineering Applications of Artificial Intelligence, 2016, 48, 1-12.	8.1	128
82	Resource Scheduling Using Neural Dynamics Model of Adeli and Park. Journal of Construction Engineering and Management - ASCE, 2001, 127, 28-34.	3.8	127
83	Radial Basis Function Neural Network for Work Zone Capacity and Queue Estimation. Journal of Transportation Engineering, 2003, 129, 494-503.	0.9	127
84	Alzheimer's Disease: Models of Computation and Analysis of EEGs. Clinical EEG and Neuroscience, 2005, 36, 131-140.	1.7	127
85	Spatiotemporal Analysis of Relative Convergence of EEGs Reveals Differences Between Brain Dynamics of Depressive Women and Men. Clinical EEG and Neuroscience, 2013, 44, 175-181.	1.7	127
86	A novel methodology for modal parameters identification of large smart structures using MUSIC, empirical wavelet transform, and Hilbert transform. Engineering Structures, 2017, 147, 148-159.	5.3	127
87	Brain functional connectivity patterns for emotional state classification in Parkinson's disease patients without dementia. Behavioural Brain Research, 2016, 298, 248-260.	2.2	126
88	Optimization of space structures by neural dynamics. Neural Networks, 1995, 8, 769-781.	5.9	125
89	Fuzzy Synchronization Likelihood with Application to Attention-Deficit/Hyperactivity Disorder. Clinical EEG and Neuroscience, 2011, 42, 6-13.	1.7	125
90	NEEWS: A novel earthquake early warning model using neural dynamic classification and neural dynamic optimization. Soil Dynamics and Earthquake Engineering, 2017, 100, 417-427.	3.8	125

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91	Automated seizure prediction. Epilepsy and Behavior, 2018, 88, 251-261.	1.7	125
92	Discrete Spider Monkey Optimization for Travelling Salesman Problem. Applied Soft Computing Journal, 2020, 86, 105887.	7.2	125
93	Parkinson's disease: Cause factors, measurable indicators, and early diagnosis. Computers in Biology and Medicine, 2018, 102, 234-241.	7.0	124
94	A Sensitivity and Robustness Analysis of GPR and ANN for High-Performance Concrete Compressive Strength Prediction Using a Monte Carlo Simulation. Sustainability, 2020, 12, 830.	3.2	124
95	Computer-Aided Diagnosis of Parkinson's Disease Using Enhanced Probabilistic Neural Network. Journal of Medical Systems, 2015, 39, 179.	3.6	122
96	Complexity of functional connectivity networks in mild cognitive impairment subjects during a working memory task. Clinical Neurophysiology, 2014, 125, 694-702.	1.5	121
97	A parallel genetic/neural network learning algorithm for MIMD shared memory machines. IEEE Transactions on Neural Networks, 1994, 5, 900-909.	4.2	118
98	Sustainable Decision-Making in Civil Engineering, Construction and Building Technology. Sustainability, 2018, 10, 14.	3.2	118
99	Wavelet Coherence Model for Diagnosis of Alzheimer Disease. Clinical EEG and Neuroscience, 2012, 43, 268-278.	1.7	117
100	Distributed Neural Dynamics Algorithms for Optimization of Large Steel Structures. Journal of Structural Engineering, 1997, 123, 880-888.	3.4	116
101	Neural Network-Wavelet Microsimulation Model for Delay and Queue Length Estimation at Freeway Work Zones. Journal of Transportation Engineering, 2006, 132, 331-341.	0.9	116
102	New method for modal identification of super high-rise building structures using discretized synchrosqueezed wavelet and Hilbert transforms. Structural Design of Tall and Special Buildings, 2017, 26, e1312.	1.9	116
103	Parallel backpropagation learning algorithms on CRAY Y-MP8/864 supercomputer. Neurocomputing, 1993, 5, 287-302.	5.9	114
104	Shape optimization of free-form steel space-frame roof structures with complex geometries using evolutionary computing. Engineering Applications of Artificial Intelligence, 2015, 38, 168-182.	8.1	112
105	DISCRETE COST OPTIMIZATION OF COMPOSITE FLOORS USING A FLOATING-POINT GENETIC ALGORITHM. Engineering Optimization, 2001, 33, 485-501.	2.6	111
106	Incident Detection Algorithm using Wavelet Energy Representation of Traffic Patterns. Journal of Transportation Engineering, 2002, 128, 232-242.	0.9	111
107	Wavelet-Hybrid Feedback-Least Mean Square Algorithm for Robust Control of Structures. Journal of Structural Engineering, 2004, 130, 128-137.	3.4	111
108	Alzheimer's disease and models of computation: Imaging, classification, and neural models. Journal of Alzheimer's Disease, 2005, 7, 187-199.	2.6	110

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109	Concurrent Structural Optimization on Massively Parallel Supercomputer. Journal of Structural Engineering, 1995, 121, 1588-1597.	3.4	109
110	Time-Frequency Signal Analysis of Earthquake Records Using Mexican Hat Wavelets. Computer-Aided Civil and Infrastructure Engineering, 2003, 18, 379-389.	9.8	108
111	Freeway Work Zone Traffic Delay and Cost Optimization Model. Journal of Transportation Engineering, 2003, 129, 230-241.	0.9	107
112	Hybrid Control of Smart Structures Using a Novel Wavelet-Based Algorithm. Computer-Aided Civil and Infrastructure Engineering, 2005, 20, 7-22.	9.8	107
113	Detection of Epileptic Seizure Using Pretrained Deep Convolutional Neural Network and Transfer Learning. European Neurology, 2020, 83, 602-614.	1.4	107
114	CONSCOM: An OO Construction Scheduling and Change Management System. Journal of Construction Engineering and Management - ASCE, 1999, 125, 368-376.	3.8	106
115	Fast Automatic Incident Detection on Urban and Rural Freeways Using Wavelet Energy Algorithm. Journal of Transportation Engineering, 2003, 129, 57-68.	0.9	106
116	Machine learning (ML) for the diagnosis of autism spectrum disorder (ASD) using brain imaging. Reviews in the Neurosciences, 2020, 31, 825-841.	2.9	106
117	Imaging and machine learning techniques for diagnosis of Alzheimerâ€™s disease. Reviews in the Neurosciences, 2016, 27, 857-870.	2.9	102
118	Advances in optimization of highrise building structures. Structural and Multidisciplinary Optimization, 2014, 50, 899-919.	3.5	99
119	Invited Review: Recent developments in vibration control of building and bridge structures. Journal of Vibroengineering, 2017, 19, 3564-3580.	1.0	98
120	HYBRID MULTIPLE CRITERIA DECISION MAKING METHODS: A REVIEW OF APPLICATIONS IN ENGINEERING. Scientia Iranica, 2016, 23, 1-20.	0.4	98
121	A novel endâ€‘toâ€‘end deep learning scheme for classifying multiâ€‘class motor imagery electroencephalography signals. Expert Systems, 2019, 36, e12494.	4.5	96
122	Neural Network Model for Optimization of Cold-Formed Steel Beams. Journal of Structural Engineering, 1997, 123, 1535-1543.	3.4	95
123	Nonlinear Dynamics Measures for Automated EEG-Based Sleep Stage Detection. European Neurology, 2015, 74, 268-287.	1.4	95
124	Artificial Intelligence Techniques for Automated Diagnosis of Neurological Disorders. European Neurology, 2019, 82, 41-64.	1.4	95
125	Counterpropagation Neural Networks in Structural Engineering. Journal of Structural Engineering, 1995, 121, 1205-1212.	3.4	94
126	Optimal Control of Adaptive/Smart Bridge Structures. Journal of Structural Engineering, 1997, 123, 218-226.	3.4	94

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127	Mesoscopic-Wavelet Freeway Work Zone Flow and Congestion Feature Extraction Model. Journal of Transportation Engineering, 2004, 130, 94-103.	0.9	94
128	Brain–Computer Interface after Nervous System Injury. Neuroscientist, 2014, 20, 639-651.	3.5	94
129	Recent Advances on Vibration Control of Structures Under Dynamic Loading. Archives of Computational Methods in Engineering, 2013, 20, 353-360.	10.2	91
130	Deep learning techniques for recommender systems based on collaborative filtering. Expert Systems, 2020, 37, e12647.	4.5	89
131	Object‐Oriented Model for Freeway Work Zone Capacity and Queue Delay Estimation. Computer-Aided Civil and Infrastructure Engineering, 2004, 19, 144-156.	9.8	87
132	A novel algorithm to detect glaucoma risk using texton and local configuration pattern features extracted from fundus images. Computers in Biology and Medicine, 2017, 88, 72-83.	7.0	86
133	Fuzzy clustering approach for accurate embedding dimension identification in chaotic time series. Integrated Computer-Aided Engineering, 2003, 10, 287-302.	4.6	85
134	Computer aided diagnosis of atrial arrhythmia using dimensionality reduction methods on transform domain representation. Biomedical Signal Processing and Control, 2014, 13, 295-305.	5.7	85
135	Optimization of University Course Scheduling Problem using Particle Swarm Optimization with Selective Search. Expert Systems With Applications, 2019, 127, 9-24.	7.6	85
136	Simulated Annealing, Its Variants and Engineering Applications. International Journal on Artificial Intelligence Tools, 2016, 25, 1630001.	1.0	84
137	Hybridizing principles of TOPSIS with case-based reasoning for business failure prediction. Computers and Operations Research, 2011, 38, 409-419.	4.0	82
138	Self-constructing wavelet neural network algorithm for nonlinear control of large structures. Engineering Applications of Artificial Intelligence, 2015, 41, 249-258.	8.1	82
139	SUSTAINABLE BUILDING DESIGN. Journal of Civil Engineering and Management, 2014, 20, 1-10.	3.5	81
140	Object‐Oriented Finite Element Analysis Using EER Model. Journal of Structural Engineering, 1993, 119, 2763-2781.	3.4	79
141	Wind-Induced Motion Control of 76-Story Benchmark Building Using the Hybrid Damper-TLCD System. Journal of Structural Engineering, 2005, 131, 1794-1802.	3.4	79
142	A Wavelet-Statistical Features Approach for Nonconvulsive Seizure Detection. Clinical EEG and Neuroscience, 2014, 45, 274-284.	1.7	79
143	Efficient optimization of space trusses. Computers and Structures, 1986, 24, 501-511.	4.4	76
144	Hybrid Feedback-Least Mean Square Algorithm for Structural Control. Journal of Structural Engineering, 2004, 130, 120-127.	3.4	76

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145	Hybrid control of irregular steel highrise building structures under seismic excitations. International Journal for Numerical Methods in Engineering, 2005, 63, 1757-1774.	2.8	76
146	Wavelet-Hybrid Feedback Linear Mean Squared Algorithm for Robust Control of Cable-Stayed Bridges. Journal of Bridge Engineering, 2005, 10, 116-123.	2.9	76
147	Two-phase genetic algorithm for topology optimization of free-form steel space-frame roof structures with complex curvatures. Engineering Applications of Artificial Intelligence, 2014, 32, 218-227.	8.1	76
148	Optimum design of cold-formed steel space structures using neural dynamics model. Journal of Constructional Steel Research, 2002, 58, 1545-1566.	3.9	75
149	OO Information Model for Construction Project Management. Journal of Construction Engineering and Management - ASCE, 1999, 125, 361-367.	3.8	72
150	Monitoring the behavior of steel structures using distributed optical fiber sensors. Journal of Constructional Steel Research, 2000, 53, 267-281.	3.9	70
151	Harmony Search Algorithm and its Variants. International Journal of Pattern Recognition and Artificial Intelligence, 2015, 29, 1539001.	1.2	70
152	Optimum cost design of reinforced concrete slabs using neural dynamics model. Engineering Applications of Artificial Intelligence, 2005, 18, 65-72.	8.1	69
153	Machine learning techniques for diagnosis of alzheimer disease, mild cognitive disorder, and other types of dementia. Biomedical Signal Processing and Control, 2022, 72, 103293.	5.7	69
154	Object-oriented backpropagation and its application to structural design. Neurocomputing, 1994, 6, 45-55.	5.9	67
155	Automatic Seizure Detection Based on Morphological Features Using One-Dimensional Local Binary Pattern on Long-Term EEG. Clinical EEG and Neuroscience, 2018, 49, 351-362.	1.7	67
156	CBR Model for Freeway Work Zone Traffic Management. Journal of Transportation Engineering, 2003, 129, 134-145.	0.9	66
157	Complexity of weighted graph: A new technique to investigate structural complexity of brain activities with applications to aging and autism. Neuroscience Letters, 2017, 650, 103-108.	2.1	66
158	A novel methodology for automated differential diagnosis of mild cognitive impairment and the Alzheimer's disease using EEG signals. Journal of Neuroscience Methods, 2019, 322, 88-95.	2.5	66
159	Automated diagnosis of autism: in search of a mathematical marker. Reviews in the Neurosciences, 2014, 25, 851-61.	2.9	65
160	Many-objective control optimization of high-rise building structures using replicator dynamics and neural dynamics model. Structural and Multidisciplinary Optimization, 2017, 56, 1521-1537.	3.5	64
161	Parallel Algorithms for Integrated Structural/Control Optimization. Journal of Aerospace Engineering, 1994, 7, 297-314.	1.4	61
162	A neural dynamics model for structural optimization—Application to plastic design of structures. Computers and Structures, 1995, 57, 391-399.	4.4	61

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163	HeartSaver: A mobile cardiac monitoring system for auto-detection of atrial fibrillation, myocardial infarction, and atrio-ventricular block. Computers in Biology and Medicine, 2011, 41, 211-220.	7.0	60
164	Semi-active vibration control of smart isolated highway bridge structures using replicator dynamics. Engineering Structures, 2019, 186, 536-552.	5.3	60
165	Integrated structural/control optimization of large adaptive/smart structures. International Journal of Solids and Structures, 1998, 35, 3815-3830.	2.7	59
166	Cost Optimization of Prestressed Concrete Bridges. Journal of Structural Engineering, 2005, 131, 380-388.	3.4	59
167	Combined corticospinal and reticulospinal effects on upper limb muscles. Neuroscience Letters, 2014, 561, 30-34.	2.1	58
168	Diagnosis of attention deficit hyperactivity disorder using imaging and signal processing techniques. Computers in Biology and Medicine, 2017, 88, 93-99.	7.0	58
169	Permutation Jaccard Distance-Based Hierarchical Clustering to Estimate EEG Network Density Modifications in MCI Subjects. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5122-5135.	11.3	58
170	Toward Intelligent Variable Message Signs in Freeway Work Zones: Neural Network Model. Journal of Transportation Engineering, 2004, 130, 83-93.	0.9	56
171	INFRARED THERMOGRAPHY FOR DETECTING DEFECTS IN CONCRETE STRUCTURES. Journal of Civil Engineering and Management, 2018, 24, 508-515.	3.5	56
172	An integrated computing environment for solution of complex engineering problems using the object-oriented programming paradigm and a blackboard architecture. Computers and Structures, 1995, 54, 255-265.	4.4	55
173	Computer-aided diagnosis of alcoholism-related EEG signals. Epilepsy and Behavior, 2014, 41, 257-263.	1.7	55
174	Smart bacteria–foraging algorithm–based customized kernel support vector regression and enhanced probabilistic neural network for compaction quality assessment and control of earth–rock dam. Expert Systems, 2018, 35, e12357.	4.5	55
175	Algorithms for Nonlinear Structural Dynamics. Journal of the Structural Division, 1978, 104, 263-280.	0.2	54
176	Two-phase genetic algorithm for size optimization of free-form steel space-frame roof structures. Journal of Constructional Steel Research, 2013, 90, 283-296.	3.9	52
177	A new methodology for automated diagnosis of mild cognitive impairment (MCI) using magnetoencephalography (MEG). Behavioural Brain Research, 2016, 305, 174-180.	2.2	52
178	Control methodologies for vibration control of smart civil and mechanical structures. Expert Systems, 2018, 35, e12354.	4.5	52
179	Case-based reasoning in steel bridge engineering. Knowledge-Based Systems, 2005, 18, 37-46.	7.1	51
180	Gravitational Search Algorithm and Its Variants. International Journal of Pattern Recognition and Artificial Intelligence, 2016, 30, 1639001.	1.2	51

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181	Clinical Neurophysiological and Automated EEG-Based Diagnosis of the Alzheimer's Disease. European Neurology, 2015, 74, 202-210.	1.4	50
182	Local effects of impactors on concrete structures. Nuclear Engineering and Design, 1985, 88, 301-317.	1.7	49
183	High-Performance Computing for Large-Scale Analysis, Optimization, and Control. Journal of Aerospace Engineering, 2000, 13, 1-10.	1.4	49
184	Recent advances in control algorithms for smart structures and machines. Expert Systems, 2017, 34, e12205.	4.5	48
185	Vibration control of smart base-isolated irregular buildings using neural dynamic optimization model and replicator dynamics. Engineering Structures, 2018, 156, 322-336.	5.3	48
186	Time-frequency techniques for modal parameters identification of civil structures from acquired dynamic signals. Journal of Vibroengineering, 2016, 18, 3164-3185.	1.0	48
187	Cost optimization of composite floors using neural dynamics model. Communications in Numerical Methods in Engineering, 2001, 17, 771-787.	1.3	47
188	Recent Efforts in Earthquake Prediction (1990â€"2007). Natural Hazards Review, 2008, 9, 70-80.	1.5	47
189	Wavelet methodology to improve single unit isolation in primary motor cortex cells. Journal of Neuroscience Methods, 2015, 246, 106-118.	2.5	47
190	Wavelet energy spectrum for time-frequency localization of earthquake energy. International Journal of Imaging Systems and Technology, 2003, 13, 133-140.	4.1	46
191	Concept Drift-Oriented Adaptive and Dynamic Support Vector Machine Ensemble With Time Window in Corporate Financial Risk Prediction. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 801-813.	9.3	46
192	Water Drop Algorithms. International Journal on Artificial Intelligence Tools, 2014, 23, 1430002.	1.0	46
193	Nature-Inspired Chemical Reaction Optimisation Algorithms. Cognitive Computation, 2017, 9, 411-422.	5.2	46
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