

# Hojjat Adeli

## List of Publications by Year in descending order

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Version: 2024-02-01

353  
papers

32,498  
citations

1614

105  
h-index

5539

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       |

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

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|----|---|-----|-----------|
| 37 | Wavelet-Synchronization Methodology: A New Approach for EEG-Based Diagnosis of ADHD. <i>Clinical EEG and Neuroscience</i> , 2010, 41, 1-10.   | 1.7 | 197       |
| 38 | Smart structures: Part I "Active and semi-active control. <i>Scientia Iranica</i> , 2011, 18, 275-284.  | 0.4 | 196       |
| 39 | Regularization Neural Network for Construction Cost Estimation. <i>Journal of Construction Engineering and Management - ASCE</i> , 1998, 124, 18-24.                                      | 3.8 | 195       |
| 40 | A spatio-temporal wavelet-chaos methodology for EEG-based diagnosis of Alzheimer's disease. <i>Neuroscience Letters</i> , 2008, 444, 190-194.   | 2.1 | 190       |
| 41 | Bayesian wavelet packet denoising for structural system identification. <i>Structural Control and Health Monitoring</i> , 2007, 14, 333-356.  | 4.0 | 188       |
| 42 | Dynamic Wavelet Neural Network for Nonlinear Identification of Highrise Buildings. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2005, 20, 316-330.                        | 9.8 | 185       |
| 43 | Neuro-genetic algorithm for non-linear active control of structures. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 75, 770-786.                               | 2.8 | 185       |
| 44 | Supervised Deep Restricted Boltzmann Machine for Estimation of Concrete. <i>ACI Materials Journal</i> , 2017, 114, .  | 0.2 | 184       |
| 45 | Scheduling/Cost Optimization and Neural Dynamics Model for Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 1997, 123, 450-458.                           | 3.8 | 183       |
| 46 | Neural network model for rapid forecasting of freeway link travel time. <i>Engineering Applications of Artificial Intelligence</i> , 2003, 16, 607-613.                                   | 8.1 | 178       |
| 47 | Distributed Genetic Algorithm for Structural Optimization. <i>Journal of Aerospace Engineering</i> , 1995, 8, 156-163.  | 1.4 | 176       |
| 48 | A Novel Machine Learning Model for Estimation of Sale Prices of Real Estate Units. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016, 142, .                        | 3.8 | 176       |
| 49 | Wavelet Packet-Autocorrelation Function Method for Traffic Flow Pattern Analysis. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2004, 19, 324-337.                         | 9.8 | 174       |
| 50 | Nature Inspired Computing: An Overview and Some Future Directions. <i>Cognitive Computation</i> , 2015, 7, 706-714.   | 5.2 | 170       |
| 51 | Dynamic fuzzy wavelet neuroemulator for non-linear control of irregular building structures. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 74, 1045-1066.     | 2.8 | 169       |
| 52 | Brain-computer interface technologies: from signal to action. <i>Reviews in the Neurosciences</i> , 2013, 24, 537-52.   | 2.9 | 169       |
| 53 | Life-cycle cost optimization of steel structures. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 55, 1451-1462.  | 2.8 | 160       |
| 54 | Improved visibility graph fractality with application for the diagnosis of Autism Spectrum Disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , 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. <i>Alzheimer Disease and Associated Disorders</i> , 2011, 25, 85-92.  | 1.3 | 158       |
| 56 | Bilevel Parallel Genetic Algorithms for Optimization of Large Steel Structures. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2001, 16, 295-304.  | 9.8 | 157       |
| 57 | Fuzzy Genetic Algorithm for Optimization of Steel Structures. <i>Journal of Structural Engineering</i> , 2000, 126, 596-604.   | 3.4 | 156       |
| 58 | System identification in structural engineering. <i>Scientia Iranica</i> , 2012, 19, 1355-1364.  | 0.4 | 155       |
| 59 | Functional community analysis of brain: A new approach for EEG-based investigation of the brain pathology. <i>NeuroImage</i> , 2011, 58, 401-408.  | 4.2 | 154       |
| 60 | Autism: cause factors, early diagnosis and therapies. <i>Reviews in the Neurosciences</i> , 2014, 25, 841-50.  | 2.9 | 152       |
| 61 | Evolutionary learning based sustainable strain sensing model for structural health monitoring of high-rise buildings. <i>Applied Soft Computing Journal</i> , 2017, 58, 576-585.                       | 7.2 | 149       |
| 62 | Probabilistic neural networks for diagnosis of Alzheimer's disease using conventional and wavelet coherence. <i>Journal of Neuroscience Methods</i> , 2011, 197, 165-170.                              | 2.5 | 148       |
| 63 | Graph Theoretical Analysis of Organization of Functional Brain Networks in ADHD. <i>Clinical EEG and Neuroscience</i> , 2012, 43, 5-13.  | 1.7 | 148       |
| 64 | Recurrent neural network model with Bayesian training and mutual information for response prediction of large buildings. <i>Engineering Structures</i> , 2019, 178, 603-615.                           | 5.3 | 148       |
| 65 | Recurrent Neural Network for Approximate Earthquake Time and Location Prediction Using Multiple Seismicity Indicators. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2009, 24, 280-292. | 9.8 | 146       |
| 66 | Visibility graph similarity: A new measure of generalized synchronization in coupled dynamic systems. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 326-332.                                      | 2.8 | 146       |
| 67 | Novel Machine-Learning Model for Estimating Construction Costs Considering Economic Variables and Indexes. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018, 144, .             | 3.8 | 146       |
| 68 | Computer-Aided Diagnosis of Depression Using EEG Signals. <i>European Neurology</i> , 2015, 73, 329-336.   | 1.4 | 144       |
| 69 | Comparison of Fuzzy-Wavelet Radial Basis Function Neural Network Freeway Incident Detection Model with California Algorithm. <i>Journal of Transportation Engineering</i> , 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. <i>Journal of Neuroscience Methods</i> , 2012, 211, 203-209.   | 2.5 | 140       |
| 72 | Graph Theory and Brain Connectivity in Alzheimer's Disease. <i>Neuroscientist</i> , 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. <i>Epilepsy and Behavior</i> , 2018, 88, 251-261.  | 1.7 | 125       |
| 92  | Discrete Spider Monkey Optimization for Travelling Salesman Problem. <i>Applied Soft Computing Journal</i> , 2020, 86, 105887.   | 7.2 | 125       |
| 93  | Parkinson's disease: Cause factors, measurable indicators, and early diagnosis. <i>Computers in Biology and Medicine</i> , 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. <i>Sustainability</i> , 2020, 12, 830.                              | 3.2 | 124       |
| 95  | Computer-Aided Diagnosis of Parkinson's Disease Using Enhanced Probabilistic Neural Network. <i>Journal of Medical Systems</i> , 2015, 39, 179.  | 3.6 | 122       |
| 96  | Complexity of functional connectivity networks in mild cognitive impairment subjects during a working memory task. <i>Clinical Neurophysiology</i> , 2014, 125, 694-702.   | 1.5 | 121       |
| 97  | A parallel genetic/neural network learning algorithm for MIMD shared memory machines. <i>IEEE Transactions on Neural Networks</i> , 1994, 5, 900-909.  | 4.2 | 118       |
| 98  | Sustainable Decision-Making in Civil Engineering, Construction and Building Technology. <i>Sustainability</i> , 2018, 10, 14.  | 3.2 | 118       |
| 99  | Wavelet Coherence Model for Diagnosis of Alzheimer Disease. <i>Clinical EEG and Neuroscience</i> , 2012, 43, 268-278.  | 1.7 | 117       |
| 100 | Distributed Neural Dynamics Algorithms for Optimization of Large Steel Structures. <i>Journal of Structural Engineering</i> , 1997, 123, 880-888.  | 3.4 | 116       |
| 101 | Neural Network-Wavelet Microsimulation Model for Delay and Queue Length Estimation at Freeway Work Zones. <i>Journal of Transportation Engineering</i> , 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. <i>Structural Design of Tall and Special Buildings</i> , 2017, 26, e1312. | 1.9 | 116       |
| 103 | Parallel backpropagation learning algorithms on CRAY Y-MP8/864 supercomputer. <i>Neurocomputing</i> , 1993, 5, 287-302.  | 5.9 | 114       |
| 104 | Shape optimization of free-form steel space-frame roof structures with complex geometries using evolutionary computing. <i>Engineering Applications of Artificial Intelligence</i> , 2015, 38, 168-182.                | 8.1 | 112       |
| 105 | DISCRETE COST OPTIMIZATION OF COMPOSITE FLOORS USING A FLOATING-POINT GENETIC ALGORITHM. <i>Engineering Optimization</i> , 2001, 33, 485-501.  | 2.6 | 111       |
| 106 | Incident Detection Algorithm using Wavelet Energy Representation of Traffic Patterns. <i>Journal of Transportation Engineering</i> , 2002, 128, 232-242.   | 0.9 | 111       |
| 107 | Wavelet-Hybrid Feedback-Least Mean Square Algorithm for Robust Control of Structures. <i>Journal of Structural Engineering</i> , 2004, 130, 128-137.   | 3.4 | 111       |
| 108 | Alzheimer's disease and models of computation: Imaging, classification, and neural models. <i>Journal of Alzheimer's Disease</i> , 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 Alzheimer'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 end-to-end deep learning scheme for classifying multi-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 | Brainâ€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 | Objectâ€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 | Objectâ€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        |
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