Hojjat Adeli

List of Publications by Citations

354 papers	23,834 citations	90 h-index	140 g-index
365 ext. papers	28,347 ext. citations	3.9 avg, IF	7.81 L-index

#	Paper	IF	Citations
354	Analysis of EEG records in an epileptic patient using wavelet transform. *Journal of Neuroscience Methods*, **2003**, 123, 69-87	3	764
353	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	711
352	A wavelet-chaos methodology for analysis of EEGs and EEG subbands to detect seizure and epilepsy. *IEEE Transactions on Biomedical Engineering*, **2007**, 54, 205-11	5	476
351	Neural Networks in Civil Engineering: 1989–2000. *Computer-Aided Civil and Infrastructure Engineering*, **2001**, 16, 126-142	8.4	426
350	Spiking neural networks. *International Journal of Neural Systems*, **2009**, 19, 295-308	6.2	393
349	A New Approach for Health Monitoring of Structures: Terrestrial Laser Scanning. *Computer-Aided Civil and Infrastructure Engineering*, **2007**, 22, 19-30	8.4	373
348	Principal component analysis-enhanced cosine radial basis function neural network for robust epilepsy and seizure detection. *IEEE Transactions on Biomedical Engineering*, **2008**, 55, 512-8	5	370
347	Mixed-band wavelet-chaos-neural network methodology for epilepsy and epileptic seizure detection. *IEEE Transactions on Biomedical Engineering*, **2007**, 54, 1545-51	5	344
346	A new supervised learning algorithm for multiple spiking neural networks with application in epilepsy and seizure detection. *Neural Networks*, **2009**, 22, 1419-31	9.1	322
345	Wavelet-based EEG processing for computer-aided seizure detection and epilepsy diagnosis. *Seizure: the Journal of the British Epilepsy Association*, **2015**, 26, 56-64	3.2	303
344	Dynamic Wavelet Neural Network Model for Traffic Flow Forecasting. *Journal of Transportation Engineering*, **2005**, 131, 771-779		290
343	Dynamic Fuzzy Wavelet Neural Network Model for Structural System Identification. *Journal of Structural Engineering*, **2006**, 132, 102-111	3	283
342	Improved spiking neural networks for EEG classification and epilepsy and seizure detection. *Integrated Computer-Aided Engineering*, **2007**, 14, 187-212	5.2	279
341	Enhanced probabilistic neural network with local decision circles: A robust classifier. *Integrated Computer-Aided Engineering*, **2010**, 17, 197-210	5.2	264
340	Signal Processing Techniques for Vibration-Based Health Monitoring of Smart Structures. *Archives of Computational Methods in Engineering*, **2016**, 23, 1-15	7.8	238
339	Automated EEG-based screening of depression using deep convolutional neural network. *Computer Methods and Programs in Biomedicine*, **2018**, 161, 103-113	6.9	235
338	New diagnostic EEG markers of the Alzheimer's disease using visibility graph. *Journal of Neural Transmission*, **2010**, 117, 1099-109	4.3	230

337	A probabilistic neural network for earthquake magnitude prediction. *Neural Networks*, **2009**, 22, 1018-24	9.1	221
336	Pseudospectra, MUSIC, and dynamic wavelet neural network for damage detection of highrise buildings. *International Journal for Numerical Methods in Engineering*, **2007**, 71, 606-629	2.4	201
335	Augmented Lagrangian Genetic Algorithm for Structural Optimization. *Journal of Aerospace Engineering*, **1994**, 7, 104-118	1.4	200
334	A novel unsupervised deep learning model for global and local health condition assessment of structures. *Engineering Structures*, **2018**, 156, 598-607	4.7	190
333	Fractality and a wavelet-chaos-neural network methodology for EEG-based diagnosis of autistic spectrum disorder. *Journal of Clinical Neurophysiology*, **2010**, 27, 328-33	2.2	189
332	Integrated Genetic Algorithm for Optimization of Space Structures. *Journal of Aerospace Engineering*, **1993**, 6, 315-328	1.4	177
331	Fuzzy-Wavelet RBFNN Model for Freeway Incident Detection. *Journal of Transportation Engineering*, **2000**, 126, 464-471		176
330	Neuro-genetic algorithm for non-linear active control of structures. *International Journal for Numerical Methods in Engineering*, **2008**, 75, 770-786	2.4	174
329	Concurrent Genetic Algorithms for Optimization of Large Structures. *Journal of Aerospace Engineering*, **1994**, 7, 276-296	1.4	174
328	Wavelet-synchronization methodology: a new approach for EEG-based diagnosis of ADHD. *Clinical EEG and Neuroscience*, **2010**, 41, 1-10	2.3	169
327	A novel machine learning-based algorithm to detect damage in high-rise building structures. *Structural Design of Tall and Special Buildings*, **2017**, 26, e1400	1.8	167
326	A spatio-temporal wavelet-chaos methodology for EEG-based diagnosis of Alzheimer's disease. *Neuroscience Letters*, **2008**, 444, 190-4	3.3	165
325	Dynamic Wavelet Neural Network for Nonlinear Identification of Highrise Buildings. *Computer-Aided Civil and Infrastructure Engineering*, **2005**, 20, 316-330	8.4	164
324	Fractality analysis of frontal brain in major depressive disorder. *International Journal of Psychophysiology*, **2012**, 85, 206-11	2.9	163
323	Regularization Neural Network for Construction Cost Estimation. *Journal of Construction Engineering and Management - ASCE*, **1998**, 124, 18-24	4.2	163
322	**2013**,		162
321	Dynamic fuzzy wavelet neuroemulator for non-linear control of irregular building structures. *International Journal for Numerical Methods in Engineering*, **2008**, 74, 1045-1066	2.4	159
320	Distributed Genetic Algorithm for Structural Optimization. *Journal of Aerospace Engineering*, **1995**, 8, 156-163	1.4	159

319	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	4.6	157
318	Intrahemispheric, interhemispheric, and distal EEG coherence in Alzheimer's disease. *Clinical Neurophysiology*, **2011**, 122, 897-906	4.3	156
317	Scheduling/Cost Optimization and Neural Dynamics Model for Construction. *Journal of Construction Engineering and Management - ASCE*, **1997**, 123, 450-458	4.2	154
316	Smart structures: Part IÆActive and semi-active control. *Scientia Iranica*, **2011**, 18, 275-284	1.5	150
315	Neural network models for earthquake magnitude prediction using multiple seismicity indicators. *International Journal of Neural Systems*, **2007**, 17, 13-33	6.2	147
314	Current methods in electrocardiogram characterization. *Computers in Biology and Medicine*, **2014**, 48, 133-49	7	146
313	A New Neural Dynamic Classification Algorithm. *IEEE Transactions on Neural Networks and Learning Systems*, **2017**, 28, 3074-3083	10.3	146
312	Bayesian wavelet packet denoising for structural system identification. *Structural Control and Health Monitoring*, **2007**, 14, 333-356	4.5	145
311	Wavelet Packet-Autocorrelation Function Method for Traffic Flow Pattern Analysis. *Computer-Aided Civil and Infrastructure Engineering*, **2004**, 19, 324-337	8.4	144
310	Fuzzy Genetic Algorithm for Optimization of Steel Structures. *Journal of Structural Engineering*, **2000**, 126, 596-604	3	144
309	Improved visibility graph fractality with application for the diagnosis of Autism Spectrum Disorder. *Physica A: Statistical Mechanics and Its Applications*, **2012**, 391, 4720-4726	3.3	143
308	Life-cycle cost optimization of steel structures. *International Journal for Numerical Methods in Engineering*, **2002**, 55, 1451-1462	2.4	142
307	Neural network model for rapid forecasting of freeway link travel time. *Engineering Applications of Artificial Intelligence*, **2003**, 16, 607-613	7.2	141
306	Brain-computer interface technologies: from signal to action. *Reviews in the Neurosciences*, **2013**, 24, 537-52	4.7	139
305	Fractality and a wavelet-chaos-methodology for EEG-based diagnosis of Alzheimer disease. *Alzheimer Disease and Associated Disorders*, **2011**, 25, 85-92	2.5	138
304	Tuned Mass Dampers. *Archives of Computational Methods in Engineering*, **2013**, 20, 419-431	7.8	137
303	Functional community analysis of brain: a new approach for EEG-based investigation of the brain pathology. *NeuroImage*, **2011**, 58, 401-8	7.9	136
302	System identification in structural engineering. *Scientia Iranica*, **2012**, 19, 1355-1364	1.5	132

301	Comparison of Fuzzy-Wavelet Radial Basis Function Neural Network Freeway Incident Detection Model with California Algorithm. *Journal of Transportation Engineering*, **2002**, 128, 21-30		132
300	Probabilistic neural networks for diagnosis of Alzheimer's disease using conventional and wavelet coherence. *Journal of Neuroscience Methods*, **2011**, 197, 165-70	3	131
299	Graph theoretical analysis of organization of functional brain networks in ADHD. *Clinical EEG and Neuroscience*, **2012**, 43, 5-13	2.3	129
298	Bilevel Parallel Genetic Algorithms for Optimization of Large Steel Structures. *Computer-Aided Civil and Infrastructure Engineering*, **2001**, 16, 295-304	8.4	129
297	A Novel Depression Diagnosis Index Using Nonlinear Features in EEG Signals. *European Neurology*, **2015**, 74, 79-83	2.1	128
296	Automated EEG-Based Diagnosis of Neurological Disorders		128
295	Visibility graph similarity: A new measure of generalized synchronization in coupled dynamic systems. *Physica D: Nonlinear Phenomena*, **2012**, 241, 326-332	3.3	123
294	Fuzzy synchronization likelihood with application to attention-deficit/hyperactivity disorder. *Clinical EEG and Neuroscience*, **2011**, 42, 6-13	2.3	120
293	Neuro-Fuzzy Logic Model for Freeway Work Zone Capacity Estimation. *Journal of Transportation Engineering*, **2003**, 129, 484-493		119
292	Fuzzy Synchronization Likelihood-wavelet methodology for diagnosis of autism spectrum disorder. *Journal of Neuroscience Methods*, **2012**, 211, 203-9	3	118
291	Alzheimer's disease: models of computation and analysis of EEGs. *Clinical EEG and Neuroscience*, **2005**, 36, 131-40	2.3	118
290	Fuzzy Discrete Multicriteria Cost Optimization of Steel Structures. *Journal of Structural Engineering*, **2000**, 126, 1339-1347	3	118
289	Wavelet-Clustering-Neural Network Model for Freeway Incident Detection. *Computer-Aided Civil and Infrastructure Engineering*, **2003**, 18, 325-338	8.4	115
288	Recurrent Neural Network for Approximate Earthquake Time and Location Prediction Using Multiple Seismicity Indicators. *Computer-Aided Civil and Infrastructure Engineering*, **2009**, 24, 280-292	8.4	113
287	Nature Inspired Computing: An Overview and Some Future Directions. *Cognitive Computation*, **2015** , 7, 706-714	4.4	112
286	Radial Basis Function Neural Network for Work Zone Capacity and Queue Estimation. *Journal of Transportation Engineering*, **2003**, 129, 494-503		112
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277	A dynamic ensemble learning algorithm for neural networks. *Neural Computing and Applications*, **2020**, 32, 8675-8690	4.8	105
276	Alzheimer's disease and models of computation: imaging, classification, and neural models. *Journal of Alzheimerls Disease*, **2005**, 7, 187-99; discussion 255-62	4.3	104
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274	A new music-empirical wavelet transform methodology for time frequency analysis of noisy nonlinear and non-stationary signals **2015**, 45, 55-68		100
273	Complexity of functional connectivity networks in mild cognitive impairment subjects during a working memory task. *Clinical Neurophysiology*, **2014**, 125, 694-702	4.3	100
272	Spatiotemporal analysis of relative convergence of EEGs reveals differences between brain dynamics of depressive women and men. *Clinical EEG and Neuroscience*, **2013**, 44, 175-81	2.3	98
271	Parallel backpropagation learning algorithms on CRAY Y-MP8/864 supercomputer. *Neurocomputing* , **1993**, 5, 287-302	5.4	98
270	Wavelet-Hybrid Feedback-Least Mean Square Algorithm for Robust Control of Structures. *Journal of Structural Engineering*, **2004**, 130, 128-137	3	97
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268	Neural Network-Wavelet Microsimulation Model for Delay and Queue Length Estimation at Freeway Work Zones. *Journal of Transportation Engineering*, **2006**, 132, 331-341		93
267	Computer-Aided Diagnosis of Parkinson's Disease Using Enhanced Probabilistic Neural Network. *Journal of Medical Systems*, **2015**, 39, 179	5.1	92
266	Computer-Aided Diagnosis of Depression Using EEG Signals. *European Neurology*, **2015**, 73, 329-36	2.1	91

265	Distributed Neural Dynamics Algorithms for Optimization of Large Steel Structures. *Journal of Structural Engineering*, **1997**, 123, 880-888	3	90
264	Hybrid Control of Smart Structures Using a Novel Wavelet-Based Algorithm. *Computer-Aided Civil and Infrastructure Engineering*, **2005**, 20, 7-22	8.4	90
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262	Concurrent Structural Optimization on Massively Parallel Supercomputer. *Journal of Structural Engineering*, **1995**, 121, 1588-1597	3	90
261	Brain functional connectivity patterns for emotional state classification in Parkinson's disease patients without dementia. *Behavioural Brain Research*, **2016**, 298, 248-60	3.4	89
260	Fast Automatic Incident Detection on Urban and Rural Freeways Using Wavelet Energy Algorithm. *Journal of Transportation Engineering*, **2003**, 129, 57-68		89
259	A parallel genetic/neural network learning algorithm for MIMD shared memory machines. *IEEE Transactions on Neural Networks*, **1994**, 5, 900-9		89
258	Incident Detection Algorithm using Wavelet Energy Representation of Traffic Patterns. *Journal of Transportation Engineering*, **2002**, 128, 232-242		88
257	DISCRETE COST OPTIMIZATION OF COMPOSITE FLOORS USING A FLOATING-POINT GENETIC ALGORITHM. *Engineering Optimization*, **2001**, 33, 485-501	2	88
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255	Time-Frequency Signal Analysis of Earthquake Records Using Mexican Hat Wavelets. *Computer-Aided Civil and Infrastructure Engineering*, **2003**, 18, 379-389	8.4	87
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252	Freeway Work Zone Traffic Delay and Cost Optimization Model. *Journal of Transportation Engineering*, **2003**, 129, 230-241		84
251	FEMa: a finite element machine for fast learning. *Neural Computing and Applications*, **2020**, 32, 6393-6404	4.8	84
250	Neural Network Model for Optimization of Cold-Formed Steel Beams. *Journal of Structural Engineering*, **1997**, 123, 1535-1543	3	83
249	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	7.2	81
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247	Graph Theory and Brain Connectivity in Alzheimer's Disease. *Neuroscientist*, **2017**, 23, 616-626	7.6	78
246	Optimal Control of Adaptive/Smart Bridge Structures. *Journal of Structural Engineering*, **1997**, 123, 218-226	3	78
245	Automated seizure prediction. *Epilepsy and Behavior*, **2018**, 88, 251-261	3.2	77
244	Brain-computer interface after nervous system injury. *Neuroscientist*, **2014**, 20, 639-51	7.6	75
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240	Wind-Induced Motion Control of 76-Story Benchmark Building Using the Hybrid Damper-TLCD System. *Journal of Structural Engineering*, **2005**, 131, 1794-1802	3	69
239	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	7.2	68
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233	HYBRID MULTIPLE CRITERIA DECISION MAKING METHODS: A REVIEW OF APPLICATIONS IN ENGINEERING. *Scientia Iranica*, **2016**, 23, 1-20	1.5	67
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231	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	66
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224	A Wavelet-Statistical Features Approach for Nonconvulsive Seizure Detection. *Clinical EEG and Neuroscience*, **2014**, 45, 274-284	2.3	63
223	Object-Oriented Model for Freeway Work Zone Capacity and Queue Delay Estimation. *Computer-Aided Civil and Infrastructure Engineering*, **2004**, 19, 144-156	8.4	63
222	Optimum design of cold-formed steel space structures using neural dynamics model. *Journal of Constructional Steel Research*, **2002**, 58, 1545-1566	3.8	63
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219	Hybridizing principles of TOPSIS with case-based reasoning for business failure prediction. *Computers and Operations Research*, **2011**, 38, 409-419	4.6	61
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215	OO Information Model for Construction Project Management. *Journal of Construction Engineering and Management - ASCE*, **1999**, 125, 361-367	4.2	57
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212	Parallel Algorithms for Integrated Structural/Control Optimization. *Journal of Aerospace Engineering*, **1994**, 7, 297-314	1.4	55

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210	Invited Review: Recent developments in vibration control of building and bridge structures. *Journal of Vibroengineering*, **2017**, 19, 3564-3580	0.5	54
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207	Simulated Annealing, Its Variants and Engineering Applications. *International Journal on Artificial Intelligence Tools*, **2016**, 25, 1630001	0.9	51
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180	Harmony Search Algorithm and its Variants. *International Journal of Pattern Recognition and Artificial Intelligence*, **2015**, 29, 1539001	1.1	38
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176	EEG/MEG- and imaging-based diagnosis of Alzheimer's disease. *Reviews in the Neurosciences*, **2013**, 24, 563-76	4.7	35

175	Cost optimization of composite floors using neural dynamics model. *Communications in Numerical Methods in Engineering*, **2001**, 17, 771-787		35
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167	Diagrid: An innovative, sustainable, and efficient structural system. *Structural Design of Tall and Special Buildings*, **2017**, 26, e1358	1.8	32
166	Gravitational Search Algorithm and Its Variants. *International Journal of Pattern Recognition and Artificial Intelligence*, **2016**, 30, 1639001	1.1	32
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12	Automatic detection of traffic incidents using data obtained from sensors embedded in intelligent freeways. *Sensor Review*, **2002**, 22, 145-149	1.4	0
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5	Interactive computer-aided load and resistance factor design of plate girders. *Computers and Structures*, **1986**, 23, 509-534	4.5	
4	Interactive elastic and inelastic response spectrum analysis of multistorey buildings. *Engineering Computations*, **1986**, 3, 64-72	1.4	
3	Interactive microcomputer-aided design of shop-welded and field-bolted beam-column connections. *CAD Computer Aided Design*, **1987**, 19, 115-121	2.9	
2	Neural Dynamic Model for Optimization of Complex Systems **1999**, 14-15		
1	Plasticity model for partially prestressed concrete. *Structures*, **2022**, 38, 630-651	3.4	