Reza Boostani

List of Publications by Year
in descending order

138 papers	2,819 citations	218381 26 h-index	197535 49 g-index
140 all docs	140 docs citations	140 times ranked	2899 citing authors

#	Article	IF	Citations
1	Robust nonlinear control of blood glucose in diabetic patients subject to model uncertainties. ISA Transactions, 2023, 133, 353-368.	3.1	3
2	Efficient fingerprint features for gender recognition. Multidimensional Systems and Signal Processing, 2022, 33, 81-97.	1.7	5
3	Continuous Scoring of Depression From EEG Signals via a Hybrid of Convolutional Neural Networks. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 176-183.	2.7	15
4	Time-Frequency Distribution Analysis for Electroencephalogram Signals of Patients With Schizophrenia and Normal Participants. International Clinical Neuroscience Journal, 2022, 9, e11-e11.	0.1	0
5	A new similarity-based link prediction algorithm based on combination of network topological features. International Journal of Electrical and Computer Engineering, 2022, 12, 2802.	0.5	0
6	ORBoost: An Orthogonal AdaBoost. Intelligent Data Analysis, 2022, 26, 805-818.	0.4	3
7	A hybrid feature selection scheme for high-dimensional data. Engineering Applications of Artificial Intelligence, 2022, 113, 104894.	4.3	10
8	A Novel Classification Strategy to Distinguish Five Levels of Pain Using the EEG Signal Features. IEEE Transactions on Affective Computing, 2021, 12, 131-140.	5.7	25
9	Noise robust and rotation invariant texture classification based on local distribution transform. Multimedia Tools and Applications, 2021, 80, 8639-8666.	2.6	3
10	A New Framework to Estimate Breathing Rate From Electrocardiogram, Photoplethysmogram, and Blood Pressure Signals. IEEE Access, 2021, 9, 45832-45844.	2.6	12
11	FEM-DBSCAN: An Efficient Density-Based Clustering Approach. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2021, 45, 979-992.	1.5	4
12	State Feedback Method to Control Chaotic Neural Network Based on the Dynamic Phase-Space Constraint. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2021, 45, 721-731.	1.5	1
13	A deep neural network-based transfer learning to enhance the performance and learning speed of BCI systems. Brain-Computer Interfaces, 2021, 8, 14-25.	0.9	15
14	A CHAOTIC MULTILAYER LIF SCHEME TO MODEL THE PRIMARY VISUAL CORTEX. Biomedical Engineering - Applications, Basis and Communications, 2021, 33, 2150030.	0.3	1
15	Extremum-seeking control of left ventricular assist device to maximize the cardiac output and prevent suction. Chaos, Solitons and Fractals, 2021, 148, 111013.	2.5	3
16	ECLP: Friend Recommendation Using Ensemble Approach for Detecting Communities Performing Link Prediction. Mathematical Problems in Engineering, 2021, 2021, 1-10.	0.6	0
17	CDEC: a constrained deep embedded clustering. International Journal of Intelligent Computing and Cybernetics, 2021, 14, 686-701.	1.6	3
18	Quantification of pain severity using EEG-based functional connectivity. Biomedical Signal Processing and Control, 2021, 69, 102840.	3.5	11

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19	A Combinatorial Deep Learning Structure for Precise Depth of Anesthesia Estimation From EEG Signals. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3408-3415.	3.9	35
20	An EEG based hierarchical classification strategy to differentiate five intensities of pain. Expert Systems With Applications, 2021, 180, 115010.	4.4	5
21	Predicting shunt infection in children with hydrocephalus. Intelligence-based Medicine, 2021, 5, 100029.	1.4	2
22	A powerful notch filter for PLI cancelation. , 2021, , .		0
23	Signal activity detection in white Gaussian noise: Application to P300 detection. , 2021, , .		0
24	A new approach based on principal ERPs and LDA to improve P300 mind spellers. , 2021, , .		0
25	Instance-Based Cost-Sensitive Boosting. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2050002.	0.7	6
26	QUANTUMIZED GENETIC ALGORITHM FOR SEGMENTATION AND OPTIMIZATION TASKS. Biomedical Engineering - Applications, Basis and Communications, 2020, 32, 2050022.	0.3	1
27	Event related potential (ERP) as a reliable biometric indicator: A comparative approach. Array, 2020, 6, 100026.	2.5	11
28	Differentiation of pain levels by deploying various electroencephalogram synchronization features and a dynamic ensemble selection mechanism. Physiological Measurement, 2020, 41, 115004.	1.2	3
29	A Two-Stage Deep Learning Scheme to Estimate Depth of Anesthesia from EEG Signals. , 2020, , .		1
30	ECG-Based Personal Identification Using Empirical Mode Decomposition and Hilbert Transform. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 67-75.	1.5	5
31	A structural based feature extraction for detecting the relation of hidden substructures in coral reef images. Multimedia Tools and Applications, 2019, 78, 34513-34539.	2.6	2
32	A Novel Clustering Framework for Stream Data Un nouveau cadre de classifications pour les donnÃ©es de flux. Canadian Journal of Electrical and Computer Engineering, 2019, 42, 27-33.	1.5	6
33	A Novel Stream Clustering Framework for Spam Detection in Twitter. IEEE Transactions on Computational Social Systems, 2019, 6, 525-534.	3.2	35
34	A novel adaptive LBP-based descriptor for color image retrieval. Expert Systems With Applications, 2019, 127, 342-352.	4.4	37
35	Modelling and Control of Paraplegic Subjects Walking Using Functional Electrical Stimulation. , 2019, , .		0
36	A Physiological-Inspired Classification Strategy to Classify Five Levels of Pain. , 2019, , .		3

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37	A Fast Hybrid Feature Selection Method. , 2019, , .		1
38	A Distributed Classification Procedure for Automatic Sleep Stage Scoring Based on Instantaneous Electroencephalogram Phase and Envelope Features. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 362-370.	2.7	33
39	Improved particle swarm optimisation to estimate bone age. IET Image Processing, 2018, 12, 179-187.	1.4	17
40	How mental fatigue affects the neural sources of P300 component?. Journal of Integrative Neuroscience, 2018, 17, 93-111.	0.8	6
41	Radial mean local binary pattern for noisy texture classification. Multimedia Tools and Applications, 2018, 77, 21481-21508.	2.6	18
42	IMPROVEMENT OF THE PERFORMANCE OF FINGERPRINT VERIFICATION USING A COMBINATORIAL APPROACH. Biomedical Engineering - Applications, Basis and Communications, 2018, 30, 1850019.	0.3	1
43	Sleep microstructure dynamics and neurocognitive performance in obstructive sleep apnea syndrome patients. Journal of Integrative Neuroscience, 2018, 16, 127-142.	0.8	15
44	A novel advanced local binary pattern for image-based coral reef classification. Multimedia Tools and Applications, 2018, 77, 2561-2591.	2.6	25
45	FATIGUE DETECTION USING THE STRENGTH OF DOMINANT EEG SOURCE: A BEAMFORMING APPROACH. Biomedical Engineering - Applications, Basis and Communications, 2018, 30, 1850023.	0.3	4
46	MULTI-CHANNEL ECG-BASED STEGANOGRAPHY. Biomedical Engineering - Applications, Basis and Communications, 2018, 30, 1850046.	0.3	2
47	Optimising brain map for the diagnosis of schizophrenia. International Journal of Biomedical Engineering and Technology, 2018, 28, 105.	0.2	7
48	DB-FFR: A Modified Feature Selection Algorithm to Improve Discrimination Rate Between Bipolar Mood Disorder (BMD) and Schizophrenic Patients. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2018, 42, 251-260.	1.5	13
49	Classification of Bipolar Disorder and Schizophrenia Using Steady-State Visual Evoked Potential Based Features. IEEE Access, 2018, 6, 40379-40388.	2.6	56
50	How mental fatigue affects the neural sources of P300 component?. Journal of Integrative Neuroscience, 2018, 17, 71-81.	0.8	0
51	Extended Mapping Local Binary Pattern Operator for Texture Classification. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1750019.	0.7	12
52	Separation of P300 event-related potential using time varying time-lag blind source separation algorithm. Computer Methods and Programs in Biomedicine, 2017, 145, 95-102.	2.6	4
53	Weighted spatial based geometric scheme as an efficient algorithm for analyzing single-trial EEGS to improve cue-based BCI classification. Neural Networks, 2017, 92, 69-76.	3.3	31
54	A comparative review on sleep stage classification methods in patients and healthy individuals. Computer Methods and Programs in Biomedicine, 2017, 140, 77-91.	2.6	225

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55	A COMPREHENSIVE APPROACH TOWARDS CLASSIFICATION AND PREDICTION OF VENTRICULAR TACHYCARDIA AND VENTRICULAR FIBRILLATION. Biomedical Engineering - Applications, Basis and Communications, 2017, 29, 1750039.	0.3	2
56	Earthquake hazard assessment in the Zagros Orogenic Belt of Iran using a fuzzy rule-based model. Acta Geophysica, 2017, 65, 589-605.	1.0	2
57	AGILE. , 2017, , .		1
58	A SYSTEM FOR ACCURATELY PREDICTING THE RISK OF MYOCARDIAL INFARCTION USING PCG, ECG AND CLINICAL FEATURES. Biomedical Engineering - Applications, Basis and Communications, 2017, 29, 1750023.	0.3	9
59	Facial age estimation using Zernike Moments and multi-layer perceptron. , 2017, , .		5
60	FF-SKPCCA: Kernel probabilistic canonical correlation analysis. Applied Intelligence, 2017, 46, 438-454.	3.3	19
61	A Kalman-based instantaneous frequency estimation for anesthetic depth measurement. , 2017, , .		3
62	Age-based human face image retrieval using zernike moments. , 2017, , .		1
63	Presenting an efficient selection method for dynamic classifiers. , 2017, , .		0
64	Predicting Implantation Outcome of In Vitro Fertilization and Intracytoplasmic Sperm Injection Using Data Mining Techniques. International Journal of Fertility & Sterility, 2017, 11, 184-190.	0.2	32
65	Diagnosis of the OCD Patients using Drawing Features of the Bender Gestalt Shapes. Journal of Biomedical Physics and Engineering, 2017, 7, 59-68.	0.5	0
66	The Necessity of Data Mining in Clinical Emergency Medicine; A Narrative Review of the Current Literatrue. Bulletin of Emergency and Trauma, 2017, 5, 90-95.	0.4	2
67	Can Evolutionary-based Brain Map Be Used as a Complementary Diagnostic Tool with fMRI, CT and PET for Schizophrenic Patients?. Journal of Biomedical Physics and Engineering, 2017, 7, 169-180.	0.5	1
68	An Efficient Approach to Enhance the Performance of Fingerprint Recognition. , 2016, , .		3
69	Human Action Recognition: Learning Sparse Basis Units from Trajectory Subspace. Applied Artificial Intelligence, 2016, 30, 297-317.	2.0	4
70	ACSP: Adaptive CSP filter for BCI applications. , 2016, , .		10
71	Presenting a Spatial-Geometric EEG Feature to Classify BMD and Schizophrenic Patients. International Journal of Advances in Telecommunications, Electrotechnics, Signals and Systems, 2016, 5, .	0.2	7
72	Structured sparse representation for human action recognition. Neurocomputing, 2015, 161, 38-46.	3.5	24

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73	Learning sparse shape bases for human action recognition. , 2015, , .		1
74	Presenting nonlinear synchronous common spatial pattern for cue-based BCI. , 2015, , .		0
75	Presenting efficient features for automatic CAP detection in sleep EEG signals. , 2015, , .		13
76	Geoenvironmental zoning evaluation and optimization. Earth Science Informatics, 2015, 8, 583-593.	1.6	3
77	Classification of BMD and schizophrenic patients using geometrical analysis of their EEG signal covariance matrices. , 2015, , .		3
78	Estimation of the anesthetic depth based on instantaneous frequency of electroencephalogram. , 2015, , .		3
79	Prediction of acute myocardial infarction with artificial neural networks in patients with nondiagnostic electrocardiogram. Journal of Cardiovascular Disease Research (discontinued), 2015, 6, 51-59.	0.1	40
80	CVC: Chaotic visual cryptography to enhance steganography. , 2014, , .		16
81	Using the genetic algorithm to enhance nonnegative matrix factorization initialization. Expert Systems, 2014, 31, 213-219.	2.9	7
82	Fuzzy rule weights optimization based on Imperialist Competitive Algorithm. , 2014, , .		0
83	A Multi-Classifier Approach to MUAP Classification for Diagnosis of Neuromuscular Disorders. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 191-200.	2.7	70
84	Comparative Application of Non-negative Decomposition Methods in Classifying Fatigue and Non-fatigue States. Arabian Journal for Science and Engineering, 2014, 39, 7049-7058.	1.1	9
85	Audio visual speech source separation via improved context dependent association model. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.0	3
86	Classification of EEG Signals using adaptive weighted distance nearest neighbor algorithm. Journal of King Saud University - Computer and Information Sciences, 2014, 26, 1-6.	2.7	63
87	Operationalizing Cognitive Science and Technologies' Research and Development; the "Brain and Cognition Study Group (BCSG)" Initiative from Shiraz, Iran. Basic and Clinical Neuroscience, 2014, 5, 104-16.	0.3	5
88	Lung nodule segmentation and recognition using SVM classifier and active contour modeling: A complete intelligent system. Computers in Biology and Medicine, 2013, 43, 287-300.	3.9	155
89	A general framework to estimate spatial and spatio-spectral filters for EEG signal classification. Neurocomputing, 2013, 119, 165-174.	3.5	26
90	Classification of ADHD and BMD patients using visual evoked potential. Clinical Neurology and Neurosurgery, 2013, 115, 2329-2335.	0.6	45

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91	Presenting a new cascade structure for multiclass problems. , 2013, , .		3
92	Presenting a new search strategy to select synchronization values for classifying bipolar mood disorders from schizophrenic patients. Engineering Applications of Artificial Intelligence, 2013, 26, 913-923.	4.3	18
93	A novel infrared touch sensing using K-nearest neighbor algorithm. , 2013, , .		0
94	A hybrid classifier for characterizing motor unit action potentials in diagnosing neuromuscular disorders. Journal of Biomedical Physics and Engineering, 2013, 3, 145-54.	0.5	4
95	Ensemble based multi-linear discriminant analysis with boosting and nearest neighbor. Scientia Iranica, 2012, 19, 654-661.	0.3	3
96	Presenting an improved FRBCS to handle hybrid inputs and missing features. , 2012, , .		0
97	A wavelet-based estimating depth of anesthesia. Engineering Applications of Artificial Intelligence, 2012, 25, 1710-1722.	4.3	26
98	Presenting an effective EEG-based index to monitor the depth of anesthesia. , 2012, , .		6
99	ECG-based personal identification using empirical mode decomposition and Hilbert transform. , 2012, , .		10
100	Estimation of hypnosis susceptibility based on electroencephalogram signal features. Scientia Iranica, 2012, 20, 730-730.	0.3	6
101	Presenting a hybrid method in order to predict the2009 pandemic influenza A (H1N1). Advanced Computing an International Journal, 2012, 3, 31-43.	1.5	1
102	USING GENETIC PROGRAMMING TO SELECT THE INFORMATIVE EEG-BASED FEATURES TO DISTINGUISH SCHIZOPHRENIC PATIENTS. Neural Network World, 2012, 22, 3-20.	0.5	9
103	Boosting small MLPs with entropy combination improves phoneme posteriors estimation. , 2011, , .		1
104	Boosting a multi-linear classifier with application to visual lip reading. Expert Systems With Applications, 2011, 38, 941-948.	4.4	11
105	A new approach for EEG signal classification of schizophrenic and control participants. Expert Systems With Applications, 2011, 38, 2063-2071.	4.4	73
106	Text-independent speaker verification using ant colony optimization-based selected features. Expert Systems With Applications, 2011, 38, 620-630.	4.4	27
107	Classification of BMD and ADHD patients using their EEG signals. Expert Systems With Applications, 2011, 38, 1956-1963.	4.4	66
108	An Efficient Initialization Method for Nonnegative Matrix Factorization. Journal of Applied Sciences, 2011, 11, 354-359.	0.1	26

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109	SU-E-T-614: An Optimization Algorithm for Beam Angle, Beam Weight and Wedge Angle in Forward Treatment Planning of External-Beam Radiotherapy Based on an Integer-Representation Adaptive Mutation Probability Genetic Algorithm. Medical Physics, 2011, 38, 3631-3631.	1.6	0
110	Usefulness of approximate entropy in the diagnosis of schizophrenia. Iranian Journal of Psychiatry and Behavioral Sciences, 2011, 5, 62-70.	0.1	5
111	Chaotic based reconstructed phase space features for detecting ventricular fibrillation. Biomedical Signal Processing and Control, 2010, 5, 318-327.	3.5	38
112	Contourlet-based mammography mass classification using the SVM family. Computers in Biology and Medicine, 2010, 40, 373-383.	3.9	101
113	Proposing an adaptive mutation to improve XCSF performance to classify ADHD and BMD patients. Journal of Neural Engineering, 2010, 7, 066006.	1.8	5
114	Lung nodule segmentation using active contour modeling. , 2010, , .		9
115	Analyzing autocorrelation fluctuation of EEG signal for estimating depth of anesthesia. , 2010, , .		1
116	Using Genetic algorithm to enhance nonnegative matrix factorization initialization. , 2010, , .		0
117	Use of Time-Frequency Transforms and Kernel PCA to Classify Epileptic Patients from Control Subjects. Lecture Notes in Computer Science, 2010, , 465-472.	1.0	1
118	A Hybrid Scheme for Online Detection and Classification of Textural Fabric Defects. , 2009, , .		4
119	An efficient hybrid linear and kernel CSP approach for EEG feature extraction. Neurocomputing, 2009, 73, 432-437.	3.5	31
120	Entropy and complexity measures for EEG signal classification of schizophrenic and control participants. Artificial Intelligence in Medicine, 2009, 47, 263-274.	3.8	227
121	An efficient classifier to diagnose of schizophrenia based on the EEG signals. Expert Systems With Applications, 2009, 36, 6492-6499.	4.4	103
122	VT and VF classification using trajectory analysis. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e55-e61.	0.6	26
123	Seizure source localization using a hybrid second order blind identification and extended rival penalized competitive learning algorithm. Biomedical Signal Processing and Control, 2009, 4, 108-117.	3.5	12
124	Tectonic Zoning of Iran Based on Self-Organizing Map. Journal of Applied Sciences, 2009, 9, 4099-4114.	0.1	16
125	Lip segmentation in color images. , 2008, , .		19
126	Localization of seizure sources using blind identification and a new clustering algorithm. , 2008, , .		0

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127	Lip feature extraction and reduction for HMM-based visual speech recognition systems. , 2008, , .		12
128	Benefiting from Data Mining Techniques in a Hybrid Peer-to-Peer Network. , 2008, , .		1
129	Feature Selection SDA Method in Ensemble Nearest Neighbor Classifier. Communications in Computer and Information Science, 2008, , 884-887.	0.4	4
130	A Novel Hybrid Structure for Clustering. Communications in Computer and Information Science, 2008, , 888-891.	0.4	2
131	A New Approach to Classify the Schizophrenic and Normal Subjects by Finding the Best Channels and Frequency Bands. , 2007, , .		5
132	A Support Vector Based Fuzzy Neural Network Approach for Mass Classification in Mammography. , 2007, , .		14
133	Seizure Source Selection via a Hybrid Second Order Blind Identification and Gap Statistic Algorithm. , 2007, , .		2
134	A comparison approach toward finding the best feature and classifier in cue-based BCI. Medical and Biological Engineering and Computing, 2007, 45, 403-412.	1.6	65
135	Selection of relevant features for EEG signal classification of schizophrenic patients. Biomedical Signal Processing and Control, 2007, 2, 122-134.	3.5	68
136	A new approach in the BCI research based on fractal dimension as feature and Adaboost as classifier. Journal of Neural Engineering, 2004, 1, 212-217.	1.8	93
137	Evaluation of the forearm EMG signal features for the control of a prosthetic hand. Physiological Measurement, 2003, 24, 309-319.	1.2	334
138	A PRACTICAL NONINVASIVE BLOOD GLUCOSE MEASUREMENT SYSTEM USING NEAR-INFRARED SENSORS. Biomedical Engineering - Applications, Basis and Communications, 0, , 2150040.	0.3	1