Reza Ebrahimpour

List of Publications by Year
in descending order

111 papers	1,929 citations	331670 21 h-index	302126 39 g-index
118 all docs	118 docs citations	118 times ranked	1709 citing authors

#	Article	IF	Citations
1	Mixture of experts: a literature survey. Artificial Intelligence Review, 2014, 42, 275-293.	15.7	222
2	ECG arrhythmia recognition via a neuro-SVM–KNN hybrid classifier with virtual QRS image-based geometrical features. Expert Systems With Applications, 2012, 39, 2047-2058.	7.6	137
3	PPIevo : Protein–protein interaction prediction from PSSM based evolutionary information. Genomics, 2013, 102, 237-242.	2.9	131
4	Classification of ECG arrhythmia by a modular neural network based on Mixture of Experts and Negatively Correlated Learning. Biomedical Signal Processing and Control, 2013, 8, 289-296.	5.7	101
5	Decentralized multi-agent based energy management of microgrid using reinforcement learning. International Journal of Electrical Power and Energy Systems, 2020, 122, 106211.	5.5	82
6	Multiple classifier system for EEG signal classification with application to brain–computer interfaces. Neural Computing and Applications, 2013, 23, 1319-1327.	5.6	67
7	Beyond core object recognition: Recurrent processes account for object recognition under occlusion. PLoS Computational Biology, 2019, 15, e1007001.	3.2	61
8	A Resource-Limited Hardware Accelerator for Convolutional Neural Networks in Embedded Vision Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 1217-1221.	3.0	58
9	Mixture of MLP-experts for trend forecasting of time series: A case study of the Tehran stock exchange. International Journal of Forecasting, 2011, 27, 804-816.	6.5	51
10	LocFuse: Human protein–protein interaction prediction via classifier fusion using protein localization information. Genomics, 2014, 104, 496-503.	2.9	51
11	Predicting protein–protein interactions between human and hepatitis C virus via an ensemble learning method. Molecular BioSystems, 2014, 10, 3147-3154.	2.9	46
12	Improving ECG Classification Accuracy Using an Ensemble of Neural Network Modules. PLoS ONE, 2011, 6, e24386.	2.5	45
13	Knitted fabric defect classification for uncertain labels based on Dempster–Shafer theory of evidence. Expert Systems With Applications, 2011, 38, 5259-5267.	7.6	36
14	New differential fault analysis on PRESENT. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.7	36
15	How Can Selection of Biologically Inspired Features Improve the Performance of a Robust Object Recognition Model?. PLoS ONE, 2012, 7, e32357.	2.5	34
16	Vanishing point detection in corridors: using Hough transform and K-means clustering. IET Computer Vision, 2012, 6, 40.	2.0	34
17	Face Detection Using Mixture of MLP Experts. Neural Processing Letters, 2007, 26, 69-82.	3.2	31
18	A specialized face-processing model inspired by the organization of monkey face patches explains several face-specific phenomena observed in humans. Scientific Reports, 2016, 6, 25025.	3.3	31

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19	View-independent face recognition with Mixture of Experts. Neurocomputing, 2008, 71, 1103-1107.	5.9	28
20	Combining complementary information sources in the Dempster–Shafer framework for solving classification problems with imperfect labels. Knowledge-Based Systems, 2012, 27, 92-102.	7.1	28
21	Feedforward object-vision models only tolerate small image variations compared to human. Frontiers in Computational Neuroscience, 2014, 8, 74.	2.1	28
22	Hard-wired feed-forward visual mechanisms of the brain compensate for affine variations in object recognition. Neuroscience, 2017, 349, 48-63.	2.3	25
23	Invariant object recognition is a personalized selection of invariant features in humans, not simply explained by hierarchical feed-forward vision models. Scientific Reports, 2017, 7, 14402.	3.3	24
24	Average activity, but not variability, is the dominant factor in the representation of object categories in the brain. Neuroscience, 2017, 346, 14-28.	2.3	23
25	Combination of multiple diverse classifiers using belief functions for handling data with imperfect labels. Expert Systems With Applications, 2012, 39, 1698-1707.	7.6	21
26	Teacher-directed learning in view-independent face recognition with mixture of experts using overlapping eigenspaces. Computer Vision and Image Understanding, 2008, 111, 195-206.	4.7	19
27	Mixture of feature specified experts. Information Fusion, 2014, 20, 242-251.	19.1	19
28	Combining features of negative correlation learning with mixture of experts in proposed ensemble methods. Applied Soft Computing Journal, 2012, 12, 3539-3551.	7.2	18
29	Predicting the human reaction time based on natural image statistics in a rapid categorization task. Vision Research, 2013, 81, 36-44.	1.4	17
30	The impact of the lateral geniculate nucleus and corticogeniculate interactions on efficient coding and higher-order visual object processing. Vision Research, 2014, 101, 82-93.	1.4	17
31	Confidence Representation of Perceptual Decision by EEG and Eye Data in a Random Dot Motion Task. Neuroscience, 2019, 406, 510-527.	2.3	17
32	Spatiotemporal analysis of category and target-related information processing in the brain during object detection. Behavioural Brain Research, 2019, 362, 224-239.	2.2	17
33	Farsi handwritten digit recognition based on mixture of RBF experts. IEICE Electronics Express, 2010, 7, 1014-1019.	0.8	16
34	A Stable Biologically Motivated Learning Mechanism for Visual Feature Extraction to Handle Facial Categorization. PLoS ONE, 2012, 7, e38478.	2.5	15
35	Incorporation of a Regularization Term to Control Negative Correlation in Mixture of Experts. Neural Processing Letters, 2012, 36, 31-47.	3.2	15
36	Teacher-directed learning in view-independent face recognition with mixture of experts using single-view eigenspaces. Journal of the Franklin Institute, 2008, 345, 87-101.	3.4	13

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37	Improving mixture of experts for view-independent face recognition using teacher-directed learning. Machine Vision and Applications, 2011, 22, 421-432.	2.7	13
38	How popular CNNs perform in real applications of face recognition. , 2016, , .		13
39	Handwritten Farsi Word Recognition Using NN-Based Fusion of HMM Classifiers with Different Types of Features. International Journal of Image and Graphics, 2019, 19, 1950001.	1.5	13
40	Modeling and Compensation of Periodic Nonlinearity in Two-mode Interferometer Using Neural Networks. IETE Journal of Research, 2010, 56, 102.	2.6	11
41	Combining classifiers using nearest decision prototypes. Applied Soft Computing Journal, 2013, 13, 4570-4578.	7.2	11
42	EPILEPTIC SEIZURE DETECTION USING A NEURAL NETWORK ENSEMBLE METHOD AND WAVELET TRANSFORM. Neural Network World, 2012, 22, 291-310.	0.8	11
43	Residual Information of Previous Decision Affects Evidence Accumulation in Current Decision. Frontiers in Behavioral Neuroscience, 2019, 13, 9.	2.0	10
44	Face Recognition by Multiple Classifiers, a Divide-and-Conquer Approach. Lecture Notes in Computer Science, 2005, , 225-232.	1.3	9
45	ECOC-based training of neural networks for face recognition. , 2008, , .		9
46	A Mixture of Multilayer Perceptron Experts Network for Modeling Face/Nonface Recognition in Cortical Face Processing Regions. Intelligent Automation and Soft Computing, 2008, 14, 151-162.	2.1	9
47	The Role of Symmetry in the Aesthetics of Residential Building Façades Using Cognitive Science Methods. Symmetry, 2020, 12, 1438.	2.2	9
48	Perceptual manifestations of auditory modulation during speech planning. Experimental Brain Research, 2018, 236, 1963-1969.	1.5	8
49	The role of expertise in visual exploration and aesthetic judgment of residential building façades: An eye-tracking study.. Psychology of Aesthetics, Creativity, and the Arts, 2022, 16, 148-163.	1.3	8
50	Improving combination method of NCL experts using gating network. Neural Computing and Applications, 2013, 22, 95-101.	5.6	7
51	Capacity theorems for the Cognitive Radio Channel with confidential messages. , 2014, , .		7
52	Protein-protein interaction prediction by combined analysis of genomic and conservation information. Genes and Genetic Systems, 2014, 89, 259-272.	0.7	7
53	A temporal hierarchical feedforward model explains both the time and the accuracy of object recognition. Scientific Reports, 2021, 11, 5640.	3.3	7
54	Task-dependent neural representations of visual object categories. European Journal of Neuroscience, 2021, 54, 6445-6462.	2.6	7

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55	The Role of the Primary Information on Importance of the Last Information in Decision Making. The Neuroscience Journal of Shefaye Khatam, 2016, 4, 26-34.	0.4	7
56	Low resolution face recognition using combination of diverse classifiers. , 2010, , .		6
57	EEG-based motor imagery classification using wavelet coefficients and ensemble classifiers. , 2012, , .		6
58	Electrocardiogram beat classification via coupled boosting by filtering and preloaded mixture of experts. Neural Computing and Applications, 2013, 23, 1169-1178.	5.6	6
59	Boost-wise pre-loaded mixture of experts for classification tasks. Neural Computing and Applications, 2013, 22, 365-377.	5.6	6
60	Sequence-dependent sensitivity explains the accuracy of decisions when cues are separated with a gap. Attention, Perception, and Psychophysics, 2019, 81, 2745-2754.	1.3	6
61	Excitatory deep brain stimulation quenches beta oscillations arising in a computational model of the subthalamo-pallidal loop. Scientific Reports, 2022, 12, 7845.	3.3	6
62	An Evidence-Based Combining Classifier for Brain Signal Analysis. PLoS ONE, 2014, 9, e84341.	2.5	5
63	Extraction of the structural mode shapes utilizing image processing method and data fusion. Mechanical Systems and Signal Processing, 2021, 151, 107380.	8.0	5
64	Teacher-Directed Learning with Mixture of Experts for View-Independent Face Recognition. Lecture Notes in Computer Science, 2007, , 601-611.	1.3	5
65	Machine Fault Diagnosis Using MLPs and RBF Neural Networks. Applied Mechanics and Materials, 0, 110-116, 5021-5028.	0.2	4
66	The importance of visual features in generic vs. specialized object recognition: a computational study. Frontiers in Computational Neuroscience, 2014, 8, 78.	2.1	4
67	View-Based Eigenspaces with Mixture of Experts for View-Independent Face Recognition. , 2007, , 131-140.		4
68	The Influence of Past Decision Information on Decision Making in the Present. The Neuroscience Journal of Shefaye Khatam, 2016, 4, 1-8.	0.4	4
69	Using Combination of µ,β² and β³ Bands in Classification of EEG Signals. Basic and Clinical Neuroscience, 2013, 4, 76-87.	0.6	4
70	Single training sample Face recognition using fusion of Gabor responses. , 2010, , .		3
71	Differential fault analysis on PRINT cipher. IET Networks, 2013, 2, 30-36.	1.8	3
72	Combining RtL and LtR HMMs to recognise handwritten Farsi words of small‑and medium‑sized vocabularies. IET Computer Vision, 2018, 12, 925-932.	2.0	3

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73	Dissociable Contribution of Extrastriate Responses to Representational Enhancement of Gaze Targets. Journal of Cognitive Neuroscience, 2021, 33, 1-14.	2.3	3
74	A New Framework for Small Sample Size Face Recognition Based on Weighted Multiple Decision Templates. Lecture Notes in Computer Science, 2010, , 470-477.	1.3	3
75	The Relationship Between Pupil Diameter Data and Confidence in Multi-Stage Decisions. The Neuroscience Journal of Shefaye Khatam, 2020, 8, 70-79.	0.4	3
76	View-Independent Face Recognition with Biological Features Based on Mixture of Experts. , 2009, , .		2
77	Electrocardiogram beat classification using classifier fusion based on Decision Templates. , 2011, , .		2
78	Low resolution face recognition using Mixture of Experts with different representations. , 2011, , .		2
79	Boosted Pre-loaded Mixture of Experts for low-resolution face recognition. International Journal of Hybrid Intelligent Systems, 2012, 9, 145-158.	1.2	2
80	An adaptive approach to compensate seam tracking error in robotic welding process by a moving fixture. International Journal of Advanced Robotic Systems, 2018, 15, 172988141881620.	2.1	2
81	Early diagnosis of Alzheimer's dementia with the artificial intelligence€based Integrated Cognitive Assessment. Alzheimer's and Dementia, 2020, 16, e042863.	0.8	2
82	Occluded Visual Object Recognition Using Deep Conditional Generative Adversarial Nets and Feedforward Convolutional Neural Networks. , 2020, , .		2
83	Inherent Importance of Early Visual Features in Attraction of Human Attention. Computational Intelligence and Neuroscience, 2020, 2020, 1-15.	1.7	2
84	Prediction of Gene Co-Expression by Quantifying Heterogeneous Features. Current Bioinformatics, 2015, 10, 414-424.	1.5	2
85	Effects of Regular and Irregular Deep Brain Stimulation on the Basal Ganglia Dynamics: A Computational Approach. The Neuroscience Journal of Shefaye Khatam, 2019, 7, 1-12.	0.4	2
86	Changing in the Reaction Time Causes the Confidence Matching in Group Decision Making. The Neuroscience Journal of Shefaye Khatam, 2019, 7, 61-70.	0.4	2
87	A modified Mixture of FMLP Experts for face recognition. , 2008, , .		1
88	Evidence-based mixture of MLP-experts. , 2010, , .		1
89	Using NCL, an effective way to improve combination methods of neural classifiers. , 2010, , .		1
90	Single machine scheduling problem of minimizing maximum earliness and number of tardy jobs using a genetic algorithm. , 2011, , .		1

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91	Deep Real-world and Real-time Face Identification System. , 2019, , .		1
92	A Human Visual System Based Temporal Model for Semantic Levels Categorization. IEEE Access, 2021, 9, 32873-32881.	4.2	1
93	A Recurrent Temporal Model for Semantic Levels Categorization Based on Human Visual System. Computational Intelligence and Neuroscience, 2021, 2021, 1-20.	1.7	1
94	Image Restoration Using Two Dimensional Fast Euclidean Direction Search Based Adaptive Algorithm. , 2005, , 182-191.		1
95	Combining Neural Networks Based on Dempster-Shafer Theory for Classifying Data with Imperfect Labels. Lecture Notes in Computer Science, 2010, , 233-244.	1.3	1
96	Modification and hardware implementation of cortexâ€like object recognition model. IET Image Processing, 2020, 14, 3490-3498.	2.5	1
97	The Role of Explicit and Implicit Confidence in Multi Stage Decisions. Advances in Cognitive Science, 2020, 22, 37-47.	0.1	1
98	Optimal Temporal Gap between Two Different Visual Stimuli for Optimal Perception in Perceptual Decision- Making. The Neuroscience Journal of Shefaye Khatam, 2021, 9, 41-50.	0.4	1
99	Improving Classification Performance with Focus on the Complex Areas. Lecture Notes in Computer Science, 2010, , 612-626.	1.3	0
100	Optimized real-time soft analyzer for chemical process using artificial intelligence. , 2013, , .		0
101	Q-learning Approach for Optimal Power Dispatch of Microgrid. , 2020, , .		0
102	A Novel Iterative Rigid Image Registration Algorithm Based on the Newton Method. International Journal of Image and Graphics, 2021, 21, 2150013.	1.5	0
103	Q-Learning-Oriented Distributed Energy Management of Grid-Connected Microgrid. , 2021, , .		0
104	Using Biologically Inspired Visual Features and Mixture of Experts for Face/Nonface Recognition. Lecture Notes in Computer Science, 2009, , 439-448.	1.3	0
105	View-Independent Face Recognition with RBF Gating in Mixture of Experts Method by Teacher-Directed Learning. , 2010, , 413-418.		0
106	Improving Mixture of Experts Using Second Order Optimization. Pearl A Journal of Library and Information Science, 2012, 3, 122.	0.0	0
107	The Time Course of Visual Processing on Different Levels of Object Categorization with the Same Stimulus: A Behavioral Study. The Neuroscience Journal of Shefaye Khatam, 2018, 6, 41-50.	0.4	0
108	The essential role of recurrent processing during object recognition under occlusion. Journal of Vision, 2018, 18, 906.	0.3	0

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109	Mechanisms of Facial Tuning in a Brain-inspired Deep Network. Journal of Vision, 2020, 20, 1463.	0.3	0
110	Explaining Integration of Evidence Separated by a Temporal Gap with Fronto-Centroparietal Circuit Models. SSRN Electronic Journal, 0, , .	0.4	0
111	Investigation of Certainty in High-Level Decisions by Analyzing Behavioral Data. The Neuroscience Journal of Shefaye Khatam, 2021, 10, 56-64.	0.4	0