John Q Gan

List of Publications by Year in descending order

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98	2,039	279798	289244
papers	citations	23 h-index	40 g-index

99	99	99	1898
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel keyframe extraction method for video classification using deep neural networks. Neural Computing and Applications, 2023, 35, 24513-24524.	5.6	13
2	Biomarkers Derived from Alterations in Overlapping Community Structure of Resting-state Brain Functional Networks for Detecting Alzheimerâ€™s Disease. Neuroscience, 2022, 484, 38-52.	2.3	6
3	Augmentation of Small Training Data Using GANs for Enhancing the Performance of Image Classification. , 2021, , .		5
4	Optimization of Deep Architectures for EEG Signal Classification: An AutoML Approach Using Evolutionary Algorithms. Sensors, 2021, 21, 2096.	3.8	15
5	Small facial image dataset augmentation using conditional GANs based on incomplete edge feature input. PeerJ Computer Science, 2021, 7, e760.	4.5	2
6	Adaptive feature extraction in EEG-based motor imagery BCI: tracking mental fatigue. Journal of Neural Engineering, 2020, 17, 016020.	3.5	13
7	Adaptation of Common Spatial Patterns based on mental fatigue for motor-imagery BCI. Biomedical Signal Processing and Control, 2020, 58, 101829.	5.7	15
8	EEG sourceâ€space synchrostate transitions and Markov modeling in the mathâ€gifted brain during a longâ€chain reasoning task. Human Brain Mapping, 2020, 41, 3620-3636.	3.6	8
9	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. PLoS ONE, 2020, 15, e0234178.	2.5	45
10	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0
11	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0
12	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0
13	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0
14	A new multi-objective wrapper method for feature selection â€“ Accuracy and stability analysis for BCI. Neurocomputing, 2019, 333, 407-418.	5.9	92
15	Combining Very Deep Convolutional Neural Networks and Recurrent Neural Networks for Video Classification. Lecture Notes in Computer Science, 2019, , 811-822.	1.3	1
16	Energy-Time Analysis of Convolutional Neural Networks Distributed on Heterogeneous Clusters for EEG Classification. Lecture Notes in Computer Science, 2019, , 895-907.	1.3	0
17	Finger movements recognition using minimally redundant features of wavelet denoised EMG. Health and Technology, 2019, 9, 579-593.	3.6	13
18	Motor imagery and mental fatigue: inter-relationship and EEG based estimation. Journal of Computational Neuroscience, 2019, 46, 55-76.	1.0	46

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19	Differential recruitment of brain networks in single-digit addition and multiplication: Evidence from EEG oscillations in theta and lower alpha bands. International Journal of Psychophysiology, 2018, 128, 81-92.	1.0	7
20	Collective sparse symmetric non-negative matrix factorization for identifying overlapping communities in resting-state brain functional networks. NeuroImage, 2018, 166, 259-275.	4.2	23
21	Prediction of the 2017 French Election Based on Twitter Data Analysis Using Term Weighting. , 2018, , .		5
22	A Neural Network Approach to Score Fusion for Emotion Recognition. , 2018, , .		4
23	A Kernel Partial least square based feature selection method. Pattern Recognition, 2018, 83, 91-106.	8.1	30
24	Deep Classifier Structures with Autoencoder for Higher-level Feature Extraction. , 2018, , .		2
25	Neurocognitive mechanisms of mathematical giftedness: A literature review. Applied Neuropsychology: Child, 2017, 6, 79-94.	1.4	17
26	A supervised filter method for multi-objective feature selection in EEG classification based on multi-resolution analysis for BCI. Neurocomputing, 2017, 250, 45-56.	5.9	31
27	Shallow convolutional neural network for eyeglasses detection in facial images. , 2017, , .		4
28	Prediction of the 2017 French election based on Twitter data analysis. , 2017, , .		39
29	Deep Belief Networks and Multiobjective Feature Selection for BCI with Multiresolution Analysis. Lecture Notes in Computer Science, 2017, , 28-39.	1.3	5
30	A Parallel Island Approach to Multiobjective Feature Selection for Brain-Computer Interfaces. Lecture Notes in Computer Science, 2017, , 16-27.	1.3	2
31	Re-ranking Google search returned web documents using document classification scores. Artificial Intelligence Research, 2016, 6, .	0.3	7
32	Class-specific pre-trained sparse autoencoders for learning effective features for document classification. , 2016, , .		2
33	Classification of motor imagery tasks for BCI with multiresolution analysis and multiobjective feature selection. BioMedical Engineering OnLine, 2016, 15, 73.	2.7	27
34	EMG Feature Set Selection Through Linear Relationship for Grasp Recognition. Journal of Medical and Biological Engineering, 2016, 36, 883-890.	1.8	24
35	cBDI-based Collaborative Control for a Robotic Wheelchair. Procedia Computer Science, 2016, 84, 127-131.	2.0	4
36	Multiresolution analysis over graphs for a motor imagery based online BCI game. Computers in Biology and Medicine, 2016, 68, 21-26.	7.0	35

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37	Quantification of SSVEP responses using multi-chromatic LED stimuli: Analysis on colour, orientation and frequency. , 2015, , .		5
38	Localization of neural efficiency of the mathematically gifted brain through a feature subset selection method. Cognitive Neurodynamics, 2015, 9, 495-508.	4.0	22
39	A Label-Aided Filter Method for Multi-objective Feature Selection in EEG Classification for BCI. Lecture Notes in Computer Science, 2015, , 133-144.	1.3	4
40	A new term weighting scheme based on class specific document frequency for document representation and classification. , 2015, , .		5
41	An experimental investigation on PCA based on cosine similarity and correlation for text feature dimensionality reduction. , 2015, , .		5
42	Mathematically gifted adolescents mobilize enhanced workspace configuration of theta cortical network during deductive reasoning. Neuroscience, 2015, 289, 334-348.	2.3	14
43	A co-training algorithm based on modified Fisher's linear discriminant analysis. Intelligent Data Analysis, 2015, 19, 279-292.	0.9	3
44	Evolutionary Multiobjective Feature Selection in Multiresolution Analysis for BCI. Lecture Notes in Computer Science, 2015, , 347-359.	1.3	3
45	Optimized Gamma Synchronization Enhances Functional Binding of Fronto-Parietal Cortices in Mathematically Gifted Adolescents during Deductive Reasoning. Frontiers in Human Neuroscience, 2014, 8, 430.	2.0	9
46	Wavelet Lifting over Information-Based EEG Graphs for Motor Imagery Data Classification. Lecture Notes in Computer Science, 2014, , 3-19.	1.3	0
47	A filter-dominating hybrid sequential forward floating search method for feature subset selection in high-dimensional space. International Journal of Machine Learning and Cybernetics, 2014, 5, 413-423.	3.6	29
48	A novel fuzzy logic approach to online exposure time calculation of line scan cameras in industrial inspection. International Journal of Modelling, Identification and Control, 2014, 21, 8.	0.2	2
49	A Batch-mode Active Learning Method Based on the Nearest Average-class Distance (NACD) for Multiclass Brain-Computer Interfaces. Journal of Fiber Bioengineering and Informatics, 2014, 7, 627-636.	0.2	8
50	CSP-Based EEG Analysis on Dissociated Brain Organization for Single-Digit Addition and Multiplication. Lecture Notes in Computer Science, 2014, , 131-139.	1.3	0
51	Extracting optimal tempo-spatial features using local discriminant bases and common spatial patterns for brain computer interfacing. Biomedical Signal Processing and Control, 2013, 8, 772-778.	5.7	31
52	Performance analysis of multi-frequency SSVEP-BCI using clear and frosted colour LED stimuli. , 2013, , .		17
53	EEG-Based Cortical Localization of Neural Efficiency Related to Mathematical Giftedness. Lecture Notes in Computer Science, 2013, , 25-32.	1.3	2
54	Continuous presentation for multi-objective channel selection in Brain-Computer Interfaces. , 2012, , .		4

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55	Extracting common spatial patterns based on wavelet lifting for brain computer interface design. , 2012, , .		2
56	Hangman BCI: An unsupervised adaptive self-paced Brainâ€“Computer Interface for playing games. Computers in Biology and Medicine, 2012, 42, 598-606.	7.0	39
57	Temporal modeling of EEG during self-paced hand movement and its application in onset detection. Journal of Neural Engineering, 2011, 8, 056015.	3.5	10
58	Bayesian inference for an adaptive Ordered Probit model: An application to Brain Computer Interfacing. Neural Networks, 2011, 24, 726-734.	5.9	6
59	Conditional random fields as classifiers for three-class motor-imagery brainâ€“computer interfaces. Journal of Neural Engineering, 2011, 8, 025013.	3.5	10
60	A Self-Paced Motor Imagery Based Brain-Computer Interface for Robotic Wheelchair Control. Clinical EEG and Neuroscience, 2011, 42, 225-229.	1.7	56
61	A Hybrid Approach to Feature Subset Selection for Brain-Computer Interface Design. Lecture Notes in Computer Science, 2011, , 279-286.	1.3	4
62	A self-paced online BCI for mobile robot control. International Journal of Advanced Mechatronic Systems, 2010, 2, 28.	0.2	18
63	Unsupervised movement onset detection from EEG recorded during self-paced real hand movement. Medical and Biological Engineering and Computing, 2010, 48, 245-253.	2.8	23
64	Multi-objective evolutionary methods for channel selection in Brain-Computer Interfaces: Some preliminary experimental results. , 2010, , .		17
65	Localisation of cognitive tasks used in EEG-based BCIs. Clinical Neurophysiology, 2010, 121, 1481-1493.	1.5	20
66	Planar Biped Walking With an Equilibrium Point Controller and State Machines. IEEE/ASME Transactions on Mechatronics, 2010, 15, 253-260.	5.8	19
67	Binary-SDMOPSO and its application in channel selection for Brain-Computer Interfaces. , 2010, , .		11
68	Adaptive schemes applied to online SVM for BCI data classification. , 2009, 2009, 2600-3.		25
69	Unsupervised adaptive GMM for BCI. , 2009, , .		13
70	Extracting Takagi-Sugeno Fuzzy Rules with Interpretable Submodels via Regularization of Linguistic Modifiers. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1191-1204.	5.7	30
71	Fuzziness index driven fuzzy relaxation algorithm and applications to image processing. Annals of Operations Research, 2009, 168, 119-131.	4.1	5
72	A self-paced brainâ€“computer interface for controlling a robot simulator: an online event labelling paradigm and an extended Kalman filter based algorithm for online training. Medical and Biological Engineering and Computing, 2009, 47, 257-265.	2.8	71

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73	Adaptive classification for Brain Computer Interface systems using Sequential Monte Carlo sampling. Neural Networks, 2009, 22, 1286-1294.	5.9	30
74	Sequential classification of mental tasks vs. idle state for EEG based BCIs. , 2009, , .		11
75	Classifying mental tasks based on features of higher-order statistics from EEG signals in brainâ€“computer interface. Information Sciences, 2008, 178, 1629-1640.	6.9	187
76	Low-level interpretability and high-level interpretability: a unified view of data-driven interpretable fuzzy system modelling. Fuzzy Sets and Systems, 2008, 159, 3091-3131.	2.7	230
77	Sequential Bayesian estimation for adaptive classification. , 2008, , .		1
78	A Novel Design of 4-Class BCI Using Two Binary Classifiers and Parallel Mental Tasks. Computational Intelligence and Neuroscience, 2008, 2008, 1-5.	1.7	23
79	Mental task classification against the idle state: A preliminary investigation. , 2008, 2008, 4473-7.		7
80	Producing interpretable local models in parametric CMAC by regularization. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2008, 11, 399-408.	1.0	0
81	Adaptive Classification by Hybrid EKF with Truncated Filtering: Brain Computer Interfacing. Lecture Notes in Computer Science, 2008, , 370-377.	1.3	4
82	Constructing L2-SVM-Based Fuzzy Classifiers in High-Dimensional Space With Automatic Model Selection and Fuzzy Rule Ranking. IEEE Transactions on Fuzzy Systems, 2007, 15, 398-409.	9.8	72
83	A 3-class Asynchronous BCI Controlling A Simulated Mobile Robot. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2524-7.	0.5	20
84	A Comparison of Mental Task Combinations for Asynchronous EEG-Based BCIs. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5055-8.	0.5	6
85	Asynchronous BCI Control of a Robot Simulator with Supervised Online Training. , 2007, , 125-134.		21
86	EMG-based hands-free wheelchair control with EOG attention shift detection. , 2007, , .		46
87	Interactive image enhancement by fuzzy relaxation. International Journal of Automation and Computing, 2007, 4, 229-235.	4.5	14
88	A new fuzzy relaxation algorithm for image enhancement. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2006, 10, 181-192.	1.0	4
89	Constructing accurate and parsimonious fuzzy models with distinguishable fuzzy sets based on an entropy measure. Fuzzy Sets and Systems, 2006, 157, 1057-1074.	2.7	30
90	Multiple Objective Learning for Constructing Interpretable Takagi-Sugeno Fuzzy Model. , 2006, , 385-403.		0

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91	An analysis of the inverse kinematics for a 5-DOF manipulator. International Journal of Automation and Computing, 2005, 2, 114-124.	4.5	59
92	A complete analytical solution to the inverse kinematics of the Pioneer 2 robotic arm. Robotica, 2005, 23, 123-129.	1.9	59
93	AN UNSUPERVISED KERNEL BASED FUZZY C-MEANS CLUSTERING ALGORITHM WITH KERNEL NORMALISATION. International Journal of Computational Intelligence and Applications, 2004, 04, 355-373.	0.8	13
94	A hybrid learning scheme combining EM and MASMOD algorithms for fuzzy local linearization modeling. IEEE Transactions on Neural Networks, 2001, 12, 43-53.	4.2	12
95	State estimation and multi-sensor data fusion using data-based neurofuzzy local linearisation process models. Information Fusion, 2001, 2, 17-29.	19.1	16
96	Recognition of handwritten numerals by Quantum Neural Network with fuzzy features. International Journal on Document Analysis and Recognition, 1999, 2, 30-36.	3.4	43
97	A complex valued radial basis function network for equalization of fast time varying channels. IEEE Transactions on Neural Networks, 1999, 10, 958-960.	4.2	23
98	Neurofuzzy State Estimators and Their Applications. Annual Reviews in Control, 1999, 23, 149-158.	7.9	3