

Yi-Hung Liu

List of Publications by Year in descending order

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48
papers

967
citations

623734

14
h-index

454955

30
g-index

49
all docs

49
docs citations

49
times ranked

988
citing authors

#	ARTICLE	IF	CITATIONS
1	Ten-year trends in depression care in Taiwan. Journal of the Formosan Medical Association, 2022, 121, 2001-2011.	1.7	16
2	MCI Detection Using Kernel Eigen-Relative-Power Features of EEG Signals. Actuators, 2021, 10, 152.	2.3	7
3	Identifying Individuals With Mild Cognitive Impairment Using Working Memory-Induced Intra-Subject Variability of Resting-State EEGs. Frontiers in Computational Neuroscience, 2021, 15, 700467.	2.1	7
4	EEG-Based Classification Between Individuals with Mild Cognitive Impairment and Healthy Controls Using Conformal Kernel-Based Fuzzy Support Vector Machine. International Journal of Fuzzy Systems, 2021, 23, 2432-2448.	4.0	7
5	Validation of Machine Learning-Based Individualized Treatment for Depressive Disorder Using Target Trial Emulation. Journal of Personalized Medicine, 2021, 11, 1316.	2.5	3
6	Resting-State EEG Signal for Major Depressive Disorder Detection: A Systematic Validation on a Large and Diverse Dataset. Biosensors, 2021, 11, 499.	4.7	34
7	Investigation of Single-Station Classification for Short Tectonic Tremor in Taiwan. Journal of Geophysical Research: Solid Earth, 2019, 124, 8803-8822.	3.4	4
8	Novel Motor Imagery-Based Brain Switch for Patients With Amyotrophic Lateral Sclerosis: A Case Study Using Two-Channel Electroencephalography. IEEE Consumer Electronics Magazine, 2019, 8, 72-77.	2.3	9
9	Analysis of Electroencephalography Event-Related Desynchronisation and Synchronisation Induced by Lower-Limb Stepping Motor Imagery. Journal of Medical and Biological Engineering, 2019, 39, 54-69.	1.8	34
10	Multi-Resident Activity Recognition in a Smart Home Using RGB Activity Image and DCNN. IEEE Sensors Journal, 2018, 18, 9718-9727.	4.7	47
11	Medical Mechatronics for Healthcare. Journal of Healthcare Engineering, 2018, 2018, 1-3.	1.9	2
12	Depression Detection Using Relative EEG Power Induced by Emotionally Positive Images and a Conformal Kernel Support Vector Machine. Applied Sciences (Switzerland), 2018, 8, 1244.	2.5	43
13	A multiplayer online car racing virtual-reality game based on internet of brains. Journal of Systems Architecture, 2018, 89, 30-40.	4.3	24
14	Image correction for cone-beam computed tomography simulator using neural network corrector. Advances in Mechanical Engineering, 2017, 9, 168781401769047.	1.6	1
15	Editorial Message: Special Issue on Fuzzy Brain-Computer Interface Systems. International Journal of Fuzzy Systems, 2017, 19, 528-528.	4.0	0
16	EEG Classification of Imaginary Lower Limb Stepping Movements Based on Fuzzy Support Vector Machine with Kernel-Induced Membership Function. International Journal of Fuzzy Systems, 2017, 19, 566-579.	4.0	34
17	Motor Imagery EEG Classification for Patients with Amyotrophic Lateral Sclerosis Using Fractal Dimension and Fisher's Criterion-Based Channel Selection. Sensors, 2017, 17, 1557.	3.8	32
18	Major Depression Detection from EEG Signals Using Kernel Eigen-Filter-Bank Common Spatial Patterns. Sensors, 2017, 17, 1385.	3.8	124

#	ARTICLE	IF	CITATIONS
19	A Self-Paced P300 Healthcare Brain-Computer Interface System with SSVEP-Based Switching Control and Kernel FDA + SVM-Based Detector. Applied Sciences (Switzerland), 2016, 6, 142.	2.5	22
20	Integration of visual feedback system and motor current based gait rehabilitation robot for motor recovery. , 2016, , .		1
21	A Multifaceted Approach for Safety Design and Probabilistic Optimization. Mathematical Problems in Engineering, 2015, 2015, 1-14.	1.1	1
22	A Puzzle-Based Tool to Study Individualized Perception Reactions for Children with Autism. , 2015, , .		0
23	Low-Resolution Tactile Image Recognition for Automated Robotic Assembly Using Kernel PCA-Based Feature Fusion and Multiple Kernel Learning-Based Support Vector Machine. Mathematical Problems in Engineering, 2014, 2014, 1-11.	1.1	2
24	Emotion Recognition from Single-Trial EEG Based on Kernel Fisher's Emotion Pattern and Imbalanced Quasiconformal Kernel Support Vector Machine. Sensors, 2014, 14, 13361-13388.	3.8	43
25	A Support Vector Data Description Committee for Face Detection. Mathematical Problems in Engineering, 2014, 2014, 1-9.	1.1	3
26	EEG-based emotion recognition based on kernel Fisher's discriminant analysis and spectral powers. , 2014, , .		8
27	Mathematical Methods Applied to Digital Image Processing. Mathematical Problems in Engineering, 2014, 2014, 1-4.	1.1	3
28	Comparison of methods for a motor imagery-based two-state self-paced brain-computer interface. , 2013, , .		1
29	Controlling the False Positive Rate of a Two-State Self-Paced Brain-Computer Interface. , 2013, , .		2
30	ABNORMALITY DETECTION FOR CAPSULE ENDOSCOPE IMAGES BASED ON SUPPORT VECTOR MACHINES. Biomedical Engineering - Applications, Basis and Communications, 2012, 24, 71-83.	0.6	4
31	Novel feature of the EEG based motor imagery BCI system: Degree of imagery. , 2011, , .		5
32	A brain-controlled rehabilitation system with multiple kernel learning. , 2011, , .		2
33	Automatic Defect Detection for TFT-LCD Array Process Using Quasiconformal Kernel Support Vector Data Description. International Journal of Molecular Sciences, 2011, 12, 5762-5781.	4.1	15
34	An improved SVM-based real-time P300 speller for brain-computer interface. , 2010, , .		1
35	Fast Support Vector Data Descriptions for Novelty Detection. IEEE Transactions on Neural Networks, 2010, 21, 1296-1313.	4.2	80
36	An approach for raising the accuracy of one-class classifiers. , 2010, , .		0

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37	Reducing the run-time complexity of support vector data descriptions. , 2009, , .		2
38	Towards a high-stability EMG recognition system for prosthesis control: A one-class classification based non-target EMG pattern filtering scheme. , 2009, , .		18
39	A novel approach to generate artificial outliers for support vector data description. , 2009, , .		2
40	In-TFT-Array-Process Micro Defect Inspection Using Nonlinear Principal Component Analysis. International Journal of Molecular Sciences, 2009, 10, 4498-4514.	4.1	11
41	Automatic inline defect detection for a thin film transistorâ€“liquid crystal display array process using locally linear embedding and support vector data description. Measurement Science and Technology, 2008, 19, 095501.	2.6	23
42	A novel approach of feature classification using Support Vector Data Description combined with interpolation method. , 2008, , .		4
43	Recognition of Electromyographic Signals Using Cascaded Kernel Learning Machine. IEEE/ASME Transactions on Mechatronics, 2007, 12, 253-264.	5.8	92
44	Face Recognition Using Total Margin-Based Adaptive Fuzzy Support Vector Machines. IEEE Transactions on Neural Networks, 2007, 18, 178-192.	4.2	166
45	Face Detection Using Kernel PCA and Imbalanced SVM. Lecture Notes in Computer Science, 2006, , 351-360.	1.3	11
46	Total Margin Based Adaptive Fuzzy Support Vector Machines for Multiview Face Recognition. , 0, , .		12
47	Study on the Kernel-based FMS scheduling. , 0, , .		0
48	Dynamic scheduling of flexible manufacturing system using support vector machines. , 0, , .		2