

Aimin Jiang

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

1,177
citations

567281

15
h-index

454955

30
g-index

92
all docs

92
docs citations

92
times ranked

1030
citing authors

#	ARTICLE	IF	CITATIONS
1	LSTM-Based EEG Classification in Motor Imagery Tasks. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 2086-2095.	4.9	229
2	Trajectory Tracking of an Omni-Directional Wheeled Mobile Robot Using a Model Predictive Control Strategy. Applied Sciences (Switzerland), 2018, 8, 231.	2.5	96
3	Peak-Error-Constrained Sparse FIR Filter Design Using Iterative SOCP. IEEE Transactions on Signal Processing, 2012, 60, 4035-4044.	5.3	55
4	Minimax Design of IIR Digital Filters Using Iterative SOCP. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 1326-1337.	5.4	50
5	IIR Digital Filter Design With New Stability Constraint Based on Argument Principle. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 583-593.	5.4	45
6	Increment Entropy as a Measure of Complexity for Time Series. Entropy, 2016, 18, 22.	2.2	42
7	FIR, Allpass, and IIR Variable Fractional Delay Digital Filter Design. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 2064-2074.	5.4	38
8	Efficient CSP Algorithm With Spatio-Temporal Filtering for Motor Imagery Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1006-1016.	4.9	37
9	Identification and role of opinion leaders in information diffusion for online discussion network. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 15301-15313.	4.9	37
10	Design of Sparse FIR Filters With Joint Optimization of Sparsity and Filter Order. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 195-204.	5.4	33
11	Minimax Design of IIR Digital Filters Using SDP Relaxation Technique. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 378-390.	5.4	31
12	WLS Design of Sparse FIR Digital Filters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 125-135.	5.4	30
13	Energy Efficient UAV Flight Path Model for Cluster Head Selection in Next-Generation Wireless Sensor Networks. Sensors, 2021, 21, 8445.	3.8	23
14	Image denoising via sparse coding using eigenvectors of graph Laplacian. , 2016, 50, 114-122.		21
15	Improving Video Segmentation by Fusing Depth Cues and the Visual Background Extractor (ViBe) Algorithm. Sensors, 2017, 17, 1177.	3.8	21
16	Identifying ADHD Individuals From Resting-State Functional Connectivity Using Subspace Clustering and Binary Hypothesis Testing. Journal of Attention Disorders, 2021, 25, 736-748.	2.6	19
17	Weighted Based Trustworthiness Ranking in Social Internet of Things by using Soft Set Theory. , 2019, , .		17
18	Network localization using angle of arrival. , 2008, , .		16

#	ARTICLE	IF	CITATIONS
19	A bicycle-borne sensor for monitoring air pollution near roadways. , 2015, , .		16
20	Multi-Channel Features Spatio-Temporal Context Learning for Visual Tracking. IEEE Access, 2017, 5, 12856-12864.	4.2	16
21	Performance Enhancement in P300 ERP Single Trial by Machine Learning Adaptive Denoising Mechanism. IEEE Networking Letters, 2019, 1, 26-29.	1.9	16
22	Appropriate use of the increment entropy for electrophysiological time series. Computers in Biology and Medicine, 2018, 95, 13-23.	7.0	15
23	Collaborative Bicycle Sensing for Air Pollution on Roadway. , 2015, , .		14
24	Internet of Drones: Routing Algorithms, Techniques and Challenges. Mathematics, 2022, 10, 1488.	2.2	14
25	IIR Digital Filter Design with Novel Stability Criterion Based on Argument Principle. , 2007, , .		13
26	ADHD classification using auto-encoding neural network and binary hypothesis testing. Artificial Intelligence in Medicine, 2022, 123, 102209.	6.5	13
27	Recent Advances in FIR Approximation by IIR Digital Filters. , 2006, , .		12
28	High-Accuracy Classification of Attention Deficit Hyperactivity Disorder With $l_{2,1}$ -Norm Linear Discriminant Analysis and Binary Hypothesis Testing. IEEE Access, 2020, 8, 56228-56237.	4.2	12
29	Tortuosity entropy: A measure of spatial complexity of behavioral changes in animal movement. Journal of Theoretical Biology, 2015, 364, 197-205.	1.7	11
30	Multiscale increment entropy: An approach for quantifying the physiological complexity of biomedical time series. Information Sciences, 2022, 586, 279-293.	6.9	11
31	ADMM-Based TDOA Estimation. IEEE Communications Letters, 2018, 22, 1406-1409.	4.1	10
32	IIR Variable Fractional Delay Digital Filter Design. , 2006, , .		8
33	Distributed sensor network localization using combination and diffusion scheme. , 2015, , .		8
34	ADMM-Based Sensor Network Localization Using Low-Rank Approximation. IEEE Sensors Journal, 2018, 18, 8463-8471.	4.7	8
35	UAV-assisted Cluster-head Selection Mechanism for Wireless Sensor Network Applications. , 2019, , .		8
36	Sparse FIR Filter Design via Partial 1-Norm Optimization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1482-1486.	3.0	7

#	ARTICLE	IF	CITATIONS
37	Efficient design of sparse FIR filters in WLS sense. , 2012, , .		6
38	Sparse FIR filter design via partial L1 optimization. , 2017, , .		6
39	EEG channel optimization via sparse common spatial filter. , 2017, , .		6
40	Epileptic Seizure Detection Using Deep Convolutional Network. , 2018, , .		6
41	Minimax IIR digital filter design using SOCP. , 2008, , .		5
42	Iterative design of IIR variable fractional delay digital filters. , 2009, , .		5
43	Minimax design of IIR digital filters using SDP relaxation technique. , 2009, , .		5
44	Efficient WLS Design of IIR Digital Filters Using Partial Second-Order Factorization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 703-707.	3.0	5
45	Sparse Common Spatial Pattern for EEG Channel Reduction in Brain-Computer Interfaces. , 2018, , .		5
46	Adaptive Graph Filtering with Intra-Patch Pixel Smoothing for Image Denoising. Circuits, Systems, and Signal Processing, 2021, 40, 5381-5400.	2.0	5
47	Low-order fixed denominator IIR VFD filter design. , 2009, , .		4
48	Image denoising via Graph regularized K-SVD. , 2013, , .		4
49	Efficient design of sparse FIR filters with optimized filter length. , 2014, , .		4
50	An interactive training system of motor learning by imitation and speech instructions for children with autism. , 2016, , .		4
51	An Energy Efficient Cluster-Heads Re-Usability Mechanism for Wireless Sensor Networks. , 2019, , .		4
52	Combination of EOG and EEG for emotion recognition over different window sizes. , 2021, , .		4
53	Image denoising via sparse representation using rotational dictionary. Journal of Electronic Imaging, 2014, 23, 053016.	0.9	3
54	Speech enhancement via sparse coding with ideal binary mask. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
55	Peak-error-constrained sparse FIR filter design using iterative L_1 optimization. , 2016, , .		3
56	Learning a robust DOA estimation model with acoustic vector sensor cues. , 2017, , .		3
57	Robust Image Hashing Based on Hybrid Approach of Scale-Invariant Feature Transform and Local Binary Patterns. , 2018, , .		3
58	Graph-Based Dynamic Modeling and Traffic Prediction of Urban Road Network. IEEE Sensors Journal, 2021, 21, 28118-28130.	4.7	3
59	Peak-Constrained WLS Strategy for FIR Digital Filter Design. , 2007, , .		2
60	Designs of FIR filters with optimized group delay. , 2013, , .		2
61	Movement imitation underlying coaching platform for children with ASD. , 2015, , .		2
62	Localization of sensor networks via low rank approximation. , 2016, , .		2
63	Efficient design of FIR filters using common subexpression elimination. , 2016, , .		2
64	IIR digital filter design by partial second-order factorization and iterative WLS approach. , 2016, , .		2
65	Research on Speech Under Stress Based on Glottal Source Using a Physical Speech Production Model. IEEE Access, 2018, 6, 44473-44482.	4.2	2
66	ADMM-based Bipartite Graph Approximation. , 2019, , .		2
67	High-Accuracy Classification of Attention Deficit Hyperactivity Disorder with $L_{2,1}$ -Norm Linear Discriminant Analysis. , 2020, , .		2
68	Efficient design of FIR filters with minimum filter orders using l_{∞} -norm optimization. , 2014, , .		1
69	High quality voice conversion by post-filtering the outputs of Gaussian processes. , 2016, , .		1
70	Image denoising with expected patch log likelihood using eigenvectors of graph Laplacian. , 2016, , .		1
71	Dynamical modelling collective behavior through adaptation to topological neighbors. , 2016, , .		1
72	Sparse representation and low-rank approximation for sensor signal processing. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
73	Sparse FIR Filter Design Using Artificial Bee Colony Algorithm. , 2018, , .		1
74	Stable ARMA Graph Filter Design via Partial Second-Order Factorization. , 2019, , .		1
75	Graph Regularized Subspace Clustering via Low-Rank Decomposition. , 2021, , .		1
76	Unconstrained IIR filter design method using argument principle based stability criterion. , 2008, , .		0
77	WLS IIR digital filter design using SOCP. , 2008, , .		0
78	Minimax design of sparse FIR digital filters. , 2012, , .		0
79	Image denoising via sparse representation using rotational dictionary. , 2014, , .		0
80	Image denoising via sparse approximation using eigenvectors of graph Laplacian. , 2015, , .		0
81	IIR filter design with novel stability condition. , 2015, , .		0
82	Voice conversion based on empirical conditional distribution in resource-limited scenarios. , 2015, , .		0
83	Hybrid framework for image denoising with patch prior estimation. , 2016, , .		0
84	Image denoising via group sparse eigenvectors of Graph Laplacian. , 2016, , .		0
85	Sparse minimum-phase FIR filter design by SDP. , 2017, , .		0
86	Sparse Linear Phase FIR Filter Design using Iterative CSA. , 2018, , .		0
87	Sparse FIR Filter Design using Iterative MOCSA. , 2018, , .		0
88	Sparse CSP Algorithm via Joint Spatio-Temporal Filtering. , 2020, , .		0
89	Gaussian Processes Regression with Joint Learning of Precision Matrix. , 2021, , .		0
90	Dynamic Graph Convolutional Network: A Topology Optimization Perspective. , 2021, , .		0