

Zhiwen Liu

List of Publications by Year in descending order

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94
papers

406
citations

1040056

9
h-index

996975

15
g-index

95
all docs

95
docs citations

95
times ranked

403
citing authors

#	ARTICLE	IF	CITATIONS
1	Facial expression recognition algorithm based on parameter adaptive initialization of CNN and LSTM. Visual Computer, 2020, 36, 483-498.	3.5	42
2	Super-Resolved q -Space deep learning with uncertainty quantification. Medical Image Analysis, 2021, 67, 101885.	11.6	27
3	Hippocampal subfields segmentation in brain MR images using generative adversarial networks. BioMedical Engineering OnLine, 2019, 18, 5.	2.7	23
4	Cell dynamic morphology classification using deep convolutional neural networks. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 628-638.	1.5	17
5	Aligned Propagator Scanning Approach to DOA Estimation of Circular and Noncircular Wideband Source Signals. IEEE Transactions on Vehicular Technology, 2019, 68, 1702-1717.	6.3	15
6	A deep learning method for single-trial EEG classification in RSVP task based on spatiotemporal features of ERPs. Journal of Neural Engineering, 2021, 18, 0460c8.	3.5	14
7	Explored research on data preprocessing and mining technology for clinical data applications. , 2010, , .		11
8	Parameter Estimation of Coexisted Circular and Strictly Noncircular Sources Using Diversely Polarized Antennas. IEEE Communications Letters, 2018, 22, 1822-1825.	4.1	11
9	Parameter estimation of coexisted circular and strictly non-circular signals. Electronics Letters, 2017, 53, 864-866.	1.0	10
10	Real-time and accurate abnormal behavior detection in videos. Machine Vision and Applications, 2020, 31, 1.	2.7	10
11	Multimodal super-resolved q -space deep learning. Medical Image Analysis, 2021, 71, 102085.	11.6	10
12	Quaternion-Capon beamformer using crossed-dipole arrays. , 2011, , .		9
13	Quaternion-based worst case constrained beamformer based on electromagnetic vector-sensor arrays. , 2013, , .		9
14	Polynomial-rooting based fourth-order MUSIC for direction-of-arrival estimation of noncircular signals. Journal of Systems Engineering and Electronics, 2014, 25, 942-948.	2.2	9
15	Direction-of-Arrival Estimation of Circular and Noncircular Wideband Source Signals via Augmented Envelope Alignment. IEEE Systems Journal, 2019, 13, 1219-1230.	4.6	9
16	Sports fatigue detection based on deep learning. , 2021, , .		9
17	Quasi-vector-cross-product based direction finding algorithm with a Spatially Stretched tripole. , 2013, , .		8
18	Adaptive Crowd Segmentation Based on Coherent Motion Detection. Journal of Signal Processing Systems, 2018, 90, 1651-1666.	2.1	8

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19	Segmentation and Tracking of Lymphocytes Based on Modified Active Contour Models in Phase Contrast Microscopy Images. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-9.	1.3	7
20	Polarimetric detection and range estimation for a point-like target in non-Gaussian clutter. IET Radar, Sonar and Navigation, 2018, 12, 361-365.	1.8	7
21	Generating high quality crowd density map based on perceptual loss. Applied Intelligence, 2020, 50, 1073-1085.	5.3	7
22	Enhancing the EEG classification in RSVP task by combining interval model of ERPs with spatial and temporal regions of interest. Journal of Neural Engineering, 2021, 18, 016008.	3.5	7
23	Fully automatic robust adaptive beamforming using the constant modulus feature. IET Signal Processing, 2014, 8, 823-830.	1.5	6
24	Robust Polarimetric Adaptive Detector Against Target Steering Matrix Mismatch. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 442-455.	4.7	6
25	Three-dimensional wind profile prediction with trinion-valued adaptive algorithms. , 2015, , .		5
26	Quantitative analysis of live lymphocytes morphology and intracellular motion in microscopic images. Biomedical Signal Processing and Control, 2015, 18, 195-203.	5.7	5
27	EEG gamma-band activity during audiovisual speech comprehension in different noise environments. Cognitive Neurodynamics, 2015, 9, 389-398.	4.0	5
28	Parameter Estimation Using Partly Calibrated Vector Antennas. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 860-863.	4.0	5
29	Quantitative Analysis of Intracellular Motility Based on Optical Flow Model. Journal of Healthcare Engineering, 2017, 2017, 1-10.	1.9	5
30	Direction Finding for Wideband Source Signals via Steered Effective Projection. IEEE Sensors Journal, 2018, 18, 741-751.	4.7	5
31	Envelope aligned inverse power scanning for direction-of-arrival estimation of circular and non-circular wideband source signals. IET Microwaves, Antennas and Propagation, 2018, 12, 1494-1503.	1.4	5
32	Adaptive density distribution inspired affinity propagation clustering. Neural Computing and Applications, 2019, 31, 435-445.	5.6	5
33	A note on a fast high-resolution method for bearing estimation in shallow ocean. Multidimensional Systems and Signal Processing, 2011, 22, 349-359.	2.6	4
34	Polarization sensitive PARAFAC beamforming for near-field/far-field signals using co-centered orthogonal loop and dipole pairs. , 2013, , .		4
35	Alpha-band oscillation during speech recognition under different sensory conditions. , 2015, , .		4
36	Mutual Coupling Self-Calibration for Parameter Estimation with Vector Antennas. , 2019, , .		4

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37	Tri-polarized Sparse Array Design for Mutual Coupling Reduction in Direction Finding and Polarization Estimation. Electronics (Switzerland), 2019, 8, 1557.	3.1	4
38	Root high-order cumulant MUSIC. , 2022, 122, 103328.		4
39	Endoscopic Image Deblurring and Super-Resolution Reconstruction Based on Deep Learning. , 2020, , .		4
40	Boosting 3D model retrieval with class vocabularies and distance vector revision. , 2015, , .		3
41	Polarimetric ABORT-like adaptive detector in the presence of target steering vector mismatch. , 2017, , .		3
42	Cumulant-Based Biquaternion Approach to Direction Finding of Wideband Signals. IEEE Communications Letters, 2020, 24, 630-634.	4.1	3
43	Efficient 3D Neural Networks with Support Vector Machine for Hippocampus Segmentation. , 2020, , .		3
44	Capon beamformer for acoustic vector sensor arrays using biquaternions. , 2011, , .		2
45	The measurement of cell viability based on temporal bag of words for image sequences. , 2015, , .		2
46	Biquaternion noncircular MUSIC. Multidimensional Systems and Signal Processing, 2015, 26, 95-111.	2.6	2
47	Robust widely linear beamforming against look direction error. , 2016, , .		2
48	Design and implementation of a BSN-based system for plantar health evaluation with exercise load quantification. BioMedical Engineering OnLine, 2017, 16, 98.	2.7	2
49	On Transmitter Polarization Optimization for Target Scattering Matrix Estimation. , 2018, , .		2
50	Diversely polarised antennaâ€‘arrayâ€‘based narrowband/wideband beamforming via polarisational reconstruction matrix inversion. IET Signal Processing, 2018, 12, 358-367.	1.5	2
51	Analyzing temporal dynamics of cell deformation and intracellular movement with video feature aggregation. BioMedical Engineering OnLine, 2019, 18, 20.	2.7	2
52	Moving target detection with polarimetric distributed MIMO radar in heterogeneous clutter. Journal of Engineering, 2019, 2019, 8009-8012.	1.1	2
53	Knowledge Transfer Between Datasets for Learning-Based Tissue Microstructure Estimation. , 2020, , .		2
54	Diversely polarised sparse array design with minimum interelement spacing constraint for polarised pattern synthesis. Electronics Letters, 2020, 56, 221-223.	1.0	2

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55	Sparse representation approaches to parameter estimation of completely polarized wideband signals. <i>Signal Processing</i> , 2020, 171, 107521.	3.7	2
56	FPGA implementation of ICA algorithm for adaptive noise canceling. , 2011, , .		1
57	Multi-modal diffeomorphic demons registration based on mutual information. , 2011, , .		1
58	Markov Random Field model based multimodal medical image registration. , 2012, , .		1
59	A developed algorithm for oscillometric blood pressure measurement. , 2013, , .		1
60	Blind Separation of Noncircular Sources Via Approximate Joint Diagonalization of Augmented Charrelation Matrices. <i>Circuits, Systems, and Signal Processing</i> , 2015, 34, 695-705.	2.0	1
61	Human gait recognition based on Discrete Cosine Transform and Linear Discriminant Analysis. , 2016, , .		1
62	Computational Analysis of Cell Dynamics in Videos with Hierarchical-Pooled Deep-Convolutional Features. <i>Journal of Computational Biology</i> , 2018, 25, 934-953.	1.6	1
63	Random Nyström Approach to Clutter Subspace Estimation for Polarimetric Space-Time Adaptive Processing. <i>Electronics (Switzerland)</i> , 2020, 9, 1488.	3.1	1
64	Quantitative analysis of cell morphology based on the contourlet transform. <i>IET Image Processing</i> , 2020, 14, 2826-2832.	2.5	1
65	A Patient Specific Seizure Prediction in Long Term EEG based on Adaptive Channel Selection and Preictal Period Selection. , 2020, , .		1
66	High-resolution DOA estimation of noncircular signals without source enumeration and eigendecomposition. , 2009, , .		0
67	Adaptive fourth-order tensor beamformer. , 2011, , .		0
68	A Novel Surface Tension Coefficient Measurement Method Based on Microposts Array Microfluidic Chip. <i>Integrated Ferroelectrics</i> , 2011, 127, 172-177.	0.7	0
69	An adaptive particle filter tracking algorithm based on multi-information fusion. , 2012, , .		0
70	Cell image segmentation and tracking based on VFC Snake model in vivo. , 2012, , .		0
71	Derivative constrained Noncircularity-rate Maximization robust beamforming. , 2013, , .		0
72	On imaginary-valued diagonal loading levels with application to hyperparameter-free robust adaptive beamforming. , 2014, , .		0

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73	Bicomplex-valued adaptive filtering with application to wind profile prediction. , 2014, , .		0
74	Automatic segmentation of hippocampal subfields based on multi-atlas image segmentation techniques. Journal of Electronics, 2014, 31, 121-128.	0.2	0
75	Regularized polarimetric target detection in the presence of inhomogeneous and/or non-stationary clutter. , 2016, , .		0
76	Parameter estimation of rectilinear signals using multiple noncollocated and diversely polarized antennas. , 2016, , .		0
77	Blood pressure estimation based on pulse transit time with LANDMARC. , 2017, , .		0
78	Direction Finding of Wideband Signals Using Identically Oriented Vector Antennas. , 2019, , .		0
79	Direction of Arrival Estimation of Wideband Noncircular Signals in Frequency Domain. , 2019, , .		0
80	A Nyström-Based Method for Incoherently Distributed Source Localization. , 2020, , .		0
81	Polarised beam pattern synthesis against array manifold mismatch. IET Microwaves, Antennas and Propagation, 2021, 15, 910-924.	1.4	0
82	Aligned Subspace Rotation Approach to Parameter Estimation of Wideband Source Signals. , 2019, , .		0
83	Polarimetric STAP via Clutter Spectrum Reconstruction. , 2019, , .		0
84	Generalised RAO test for polarimetric target detection. Journal of Engineering, 2019, 2019, 7170-7173.	1.1	0
85	Transmitter and receiver polarisation optimisation design for target. Journal of Engineering, 2019, 2019, 7898-7901.	1.1	0
86	Spatio-temporal Pattern Analysis for EEG Classification in Rapid Serial Visual Presentation Task. , 2019, , .		0
87	Decoupled DOA and Polarization Estimation Based on Block 2D Sparse Representation. , 2020, , .		0
88	Target Detection using Polarimetric Distributed MIMO Radar in Heterogeneous Compound-Gaussian Clutter. , 2020, , .		0
89	Manifold Separation Based DOA Estimation Using Fourth-order Cumulant. , 2020, , .		0
90	Polarimetric Clutter Nulling Space-Time Adaptive Processing. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
91	Block sparse representation approach to 2D DOA and polarisation estimation of wideband signals using a sparse vector antenna array. IET Radar, Sonar and Navigation, 2020, 14, 1929-1939.	1.8	0
92	Aperiodic Vector Antenna Switching based Direction of Arrival Estimation for Noncircular Signals. , 2021, , .		0
93	Two-dimensional Direction-of-arrival Estimation in Monostatic MIMO Radar. , 2021, , .		0
94	Robust Aligned Widely Linear Beamforming. , 2022, , .		0