

Danilo P Mandic

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1644590/publications.pdf>

Version: 2024-02-01

263
papers

10,377
citations

53939

47
h-index

56606

87
g-index

267
all docs

267
docs citations

267
times ranked

7714
citing authors

#	ARTICLE	IF	CITATIONS
1	Von Misesâ€“Fisher Elliptical Distribution. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 11006-11012.	7.2	0
2	Supervised Learning for Nonsequential Data: A Canonical Polyadic Decomposition Approach. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5162-5176.	7.2	2
3	A full second-order statistical analysis of strictly linear and widely linear estimators with MSE and Gaussian entropy criteria. Signal Processing, 2022, 192, 108403.	2.1	1
4	Wearable In-Ear PPG: Detailed Respiratory Variations Enable Classification of COPD. IEEE Transactions on Biomedical Engineering, 2022, 69, 2390-2400.	2.5	17
5	Incremental deep learning for reflectivity data recognition in stomatology. Neural Computing and Applications, 2022, 34, 7081-7089.	3.2	4
6	Variational Embedding Multiscale Sample Entropy: A Tool for Complexity Analysis of Multichannel Systems. Entropy, 2022, 24, 26.	1.1	8
7	Variational Bayesian Tensor Networks with Structured Posteriors. , 2022, , .		0
8	Multivariate Multiscale Cosine Similarity Entropy. , 2022, , .		1
9	Online censoring based complex-valued adaptive filters. Signal Processing, 2022, 200, 108638.	2.1	8
10	Machine learning-based classification of arterial spectral waveforms for the diagnosis of peripheral artery disease in the context of diabetes: A proof-of-concept study. Vascular Medicine, 2022, 27, 450-456.	0.8	0
11	Robust decoding of the speech envelope from EEG recordings through deep neural networks. Journal of Neural Engineering, 2022, 19, 046007.	1.8	10
12	A Universal Framework for Learning the Elliptical Mixture Model. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3181-3195.	7.2	3
13	A review of Hidden Markov models and Recurrent Neural Networks for event detection and localization in biomedical signals. Information Fusion, 2021, 69, 52-72.	11.7	27
14	Improved Coherence Index-Based Bound in Compressive Sensing. IEEE Signal Processing Letters, 2021, 28, 1110-1114.	2.1	5
15	Hearables: In-Ear Multimodal Brain Computer Interfacing. Springer Briefs in Electrical and Computer Engineering, 2021, , 79-87.	0.3	1
16	Online Censoring Based Weighted-Frequency Fourier Linear Combiner for Estimation of Pathological Hand Tremors. IEEE Signal Processing Letters, 2021, 28, 1460-1464.	2.1	10
17	Innovation Starts With Education [From the Guest Editors]. IEEE Signal Processing Magazine, 2021, 38, 11-13.	4.6	1
18	From Timeâ€“Frequency to Vertexâ€“Frequency and Back. Mathematics, 2021, 9, 1407.	1.1	2

#	ARTICLE	IF	CITATIONS
19	Robust PCA Through Maximum Correntropy Power Iterations. , 2021, , .		0
20	Convergence of the RMSProp deep learning method with penalty for nonconvex optimization. Neural Networks, 2021, 139, 17-23.	3.3	83
21	Deep neural network representation and Generative Adversarial Learning. Neural Networks, 2021, 139, 199-200.	3.3	5
22	A Full Second-Order Analysis of the Widely Linear MVDR Beamformer for Noncircular Signals. IEEE Transactions on Signal Processing, 2021, 69, 4257-4268.	3.2	4
23	Hearables: Making Sense from Motion Artefacts in Ear-EEG for Real-Life Human Activity Classification. , 2021, 2021, 6889-6893.		7
24	Hearables: Automatic Overnight Sleep Monitoring With Standardized In-Ear EEG Sensor. IEEE Transactions on Biomedical Engineering, 2020, 67, 203-212.	2.5	84
25	Tensor Networks for Latent Variable Analysis: Higher Order Canonical Polyadic Decomposition. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2174-2188.	7.2	10
26	Analysis of Least Stochastic Entropy Adaptive Filters for Noncircular Gaussian Signals. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1364-1368.	2.2	11
27	Performance Analysis of Deficient Length Quaternion Least Mean Square Adaptive Filters. IEEE Transactions on Signal Processing, 2020, 68, 65-80.	3.2	13
28	Quaternion-Valued Distributed Filtering and Control. IEEE Transactions on Automatic Control, 2020, 65, 4246-4257.	3.6	22
29	SINR Analysis Of Mimo Systems With Widely Linear MMSE Receivers For The Reception Of Real-Valued Constellations. , 2020, , .		1
30	Fractional-Order Correntropy Adaptive Filters for Distributed Processing of α -Stable Signals. IEEE Signal Processing Letters, 2020, 27, 1884-1888.	2.1	25
31	Widely Linear Quaternion-Valued Least-Mean Kurtosis Algorithm. IEEE Transactions on Signal Processing, 2020, 68, 5914-5922.	3.2	17
32	In-Ear SpO ₂ : A Tool for Wearable, Unobtrusive Monitoring of Core Blood Oxygen Saturation. Sensors, 2020, 20, 4879.	2.1	53
33	Vertex-frequency graph signal processing: A comprehensive review. , 2020, 107, 102802.		20
34	Fractional-Order Correntropy Filters for Tracking Dynamic Systems in $\hat{\alpha}$ -Stable Environments. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3557-3561.	2.2	18
35	Complex Properness Inspired Blind Adaptive Frequency-Dependent I/Q Imbalance Compensation for Wideband Direct-Conversion Receivers. IEEE Transactions on Wireless Communications, 2020, 19, 5982-5992.	6.1	11
36	Improperness Based SINR Analysis of GFDM Systems Under Joint Tx and Rx I/Q Imbalance. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
37	Tensor Networks for Latent Variable Analysis: Novel Algorithms for Tensor Train Approximation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4622-4636.	7.2	15
38	Demystifying the Coherence Index in Compressive Sensing [Lecture Notes]. IEEE Signal Processing Magazine, 2020, 37, 152-162.	4.6	12
39	Data Analytics on Graphs Part I: Graphs and Spectra on Graphs. Foundations and Trends in Machine Learning, 2020, 13, 1-157.	46.6	25
40	Data Analytics on Graphs Part II: Signals on Graphs. Foundations and Trends in Machine Learning, 2020, 13, 158-331.	46.6	21
41	Data Analytics on Graphs Part III: Machine Learning on Graphs, from Graph Topology to Applications. Foundations and Trends in Machine Learning, 2020, 13, 332-530.	46.6	32
42	Design of Improper Constellations for Optimal Data Rates in Downlink NOMA Systems. , 2020, , .		1
43	Multiple-Model Adaptive Estimation for 3-D and 4-D Signals: A Widely Linear Quaternion Approach. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 72-84.	7.2	27
44	Smart DSP for a Smarter Power Grid: Teaching Power System Analysis through Signal Processing. , 2019, , .		1
45	A physiology based model of heart rate variability. Biomedical Engineering Letters, 2019, 9, 425-434.	2.1	6
46	Analysis of the Unconstrained Frequency-Domain Block LMS for Second-Order Noncircular Inputs. IEEE Transactions on Signal Processing, 2019, 67, 3970-3984.	3.2	13
47	Full Mean Square Performance Bounds on Quaternion Estimators for Improper Data. IEEE Transactions on Signal Processing, 2019, 67, 4093-4106.	3.2	10
48	Complex-Valued Nonlinear Adaptive Filters With Applications in α -Stable Environments. IEEE Signal Processing Letters, 2019, 26, 1315-1319.	2.1	14
49	Quo Vadis ICASSP: Echoes of 2019 ICASSP in Brighton, United Kingdom: Signal Processing Meets the Needs of Modern Humankind [Conference Highlights]. IEEE Signal Processing Magazine, 2019, 36, 127-134.	4.6	0
50	Understanding the Basis of Graph Signal Processing via an Intuitive Example-Driven Approach [Lecture Notes]. IEEE Signal Processing Magazine, 2019, 36, 133-145.	4.6	53
51	Complementary Cost Functions for Complex and Quaternion Widely Linear Estimation. IEEE Signal Processing Letters, 2019, 26, 1344-1348.	2.1	7
52	Early Postnatal Heart Rate Variability in Healthy Newborn Infants. Frontiers in Physiology, 2019, 10, 922.	1.3	29
53	Simultaneous DFT and IDFT through Widely Linear CLMS. , 2019, , .		0
54	Bidimensional Multivariate Empirical Mode Decomposition With Applications in Multi-Scale Image Fusion. IEEE Access, 2019, 7, 114261-114270.	2.6	15

#	ARTICLE	IF	CITATIONS
55	Innovation Starts With Education: ICASSP 2019 Education Panel [SP Forum]. IEEE Signal Processing Magazine, 2019, 36, 135-147.	4.6	2
56	Hypercomplex Widely Linear Estimation Through the Lens of Underpinning Geometry. IEEE Transactions on Signal Processing, 2019, 67, 3985-3994.	3.2	16
57	Tracking Dynamic Systems in $\hat{\pm}$ -Stable Environments. , 2019, , .		4
58	Quaternion-Valued Adaptive Filtering via Nesterov's Extrapolation. , 2019, , .		0
59	Support Tensor Machine for Financial Forecasting. , 2019, , .		8
60	A Data Analytics Perspective of Power Grid Analysis-Part 2: Teaching Old Power Systems New Tricks [Lecture Notes]. IEEE Signal Processing Magazine, 2019, 36, 110-117.	4.6	3
61	The ClassA Framework: HRV Based Assessment of SNS and PNS Dynamics Without LF-HF Controversies. Frontiers in Physiology, 2019, 10, 505.	1.3	15
62	A Data Analytics Perspective of Power Grid Analysis-Part 1: The Clarke and Related Transforms [Lecture Notes]. IEEE Signal Processing Magazine, 2019, 36, 110-116.	4.6	15
63	Unmixing Oscillatory Brain Activity by EEG Source Localization and Empirical Mode Decomposition. Computational Intelligence and Neuroscience, 2019, 2019, 1-15.	1.1	13
64	Reply to "Comments on "The Quaternion LMS Algorithm for Adaptive Filtering of Hypercomplex Processes". IEEE Transactions on Signal Processing, 2019, 67, 1959-1959.	3.2	0
65	A p-Laplacian Inspired Method for Graph Cut. , 2019, , .		2
66	A cost-effective nonlinear self-interference canceller in full-duplex direct-conversion transceivers. Signal Processing, 2019, 158, 4-14.	2.1	8
67	Joint Channel Estimation and Tx/Rx I/Q Imbalance Compensation for GFDM Systems. IEEE Transactions on Wireless Communications, 2019, 18, 1304-1317.	6.1	25
68	A pilot study of preoperative heart rate variability predicting pain during local anesthetic varicose vein surgery. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2019, 7, 382-386.	0.9	4
69	Performance Analysis of Quaternion-Valued Adaptive Filters in Nonstationary Environments. IEEE Transactions on Signal Processing, 2018, 66, 1566-1579.	3.2	33
70	Simultaneous diagonalisation of the covariance and complementary covariance matrices in quaternion widely linear signal processing. Signal Processing, 2018, 148, 193-204.	2.1	11
71	Maximum Likelihood Parameter Estimation of Unbalanced Three-Phase Power Signals. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 569-581.	2.4	34
72	In-Ear EEG Biometrics for Feasible and Readily Collectable Real-World Person Authentication. IEEE Transactions on Information Forensics and Security, 2018, 13, 648-661.	4.5	74

#	ARTICLE	IF	CITATIONS
73	Performance analysis of the deficient length augmented CLMS algorithm for second order noncircular complex signals. <i>Signal Processing</i> , 2018, 144, 214-225.	2.1	19
74	Self-assessment of surgical ward crisis management using video replay augmented with stress biofeedback. <i>Patient Safety in Surgery</i> , 2018, 12, 6.	1.1	2
75	Probabilistic guidance for catheter tip motion in cardiac ablation procedures. <i>Medical Image Analysis</i> , 2018, 47, 1-14.	7.0	4
76	A perspective on CLMS as a deficient length augmented CLMS: Dealing with second order noncircularity. <i>Signal Processing</i> , 2018, 149, 236-245.	2.1	8
77	Augmented Performance Bounds on Strictly Linear and Widely Linear Estimators With Complex Data. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 507-514.	3.2	53
78	The Female Heart: Sex Differences in the Dynamics of ECG in Response to Stress. <i>Frontiers in Physiology</i> , 2018, 9, 1616.	1.3	19
79	Refreshing Digital Communications Curriculum with RFID Technology: A Participatory Approach. , 2018, , .		3
80	A novel in-ear sensor to determine sleep latency during the Multiple Sleep Latency Test in healthy adults with and without sleep restriction. <i>Nature and Science of Sleep</i> , 2018, Volume 10, 385-396.	1.4	20
81	Automatic detection of drowsiness using in-ear EEG. , 2018, , .		14
82	Widely Linear CLMS Based Cancellation of Nonlinear Self-Interference in Full-Duplex Direct-Conversion Transceivers. , 2018, , .		1
83	TENSOR ENSEMBLE LEARNING FOR MULTIDIMENSIONAL DATA. , 2018, , .		2
84	Affine-Projection Least-Mean-Magnitude-Phase Algorithms Using a Posteriori Updates. , 2018, , .		0
85	Feature Fusion via Tensor Network Summation. , 2018, , .		4
86	Common and Individual Feature Extraction Using Tensor Decompositions: a Remedy for the Curse of Dimensionality?. , 2018, , .		8
87	A Normalized Complex LMS Based Blind I/Q Imbalance Compensator for GFDM Receivers and Its Full Second-Order Performance Analysis. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 4701-4712.	3.2	29
88	Distributed Adaptive Filtering of α -Stable Signals. <i>IEEE Signal Processing Letters</i> , 2018, 25, 1450-1454.	2.1	29
89	A Novel Multivariate Sample Entropy Algorithm for Modeling Time Series Synchronization. <i>Entropy</i> , 2018, 20, 82.	1.1	19
90	Additive noise influence on the bivariate two-component signal decomposition. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
91	Bringing Wearable Sensors into the Classroom: A Participatory Approach [SP Education]. IEEE Signal Processing Magazine, 2018, 35, 110-130.	4.6	27
92	An Augmented Nonlinear LMS for Digital Self-Interference Cancellation in Full-Duplex Direct-Conversion Transceivers. IEEE Transactions on Signal Processing, 2018, 66, 4065-4078.	3.2	51
93	A Complex Least Squares Enhanced Smart DFT Technique for Power System Frequency Estimation. IEEE Transactions on Power Delivery, 2017, 32, 1270-1278.	2.9	64
94	Noncircular Measurement and Mitigation of I/Q Imbalance for OFDM-Based WLAN Transmitters. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 383-393.	2.4	22
95	Hearables: Multimodal physiological in-ear sensing. Scientific Reports, 2017, 7, 6948.	1.6	107
96	A Full Mean Square Analysis of CLMS for Second-Order Noncircular Inputs. IEEE Transactions on Signal Processing, 2017, 65, 5578-5590.	3.2	45
97	Cost-effective diffusion Kalman filtering with implicit measurement exchanges. , 2017, , .		8
98	An online NIPALS algorithm for Partial Least Squares. , 2017, , .		5
99	Single-channel Wiener filtering of deterministic signals in stochastic noise using the panorama. , 2017, , .		1
100	Complexity science for sleep stage classification from EEG. , 2017, , .		18
101	Complementary Mean Square Analysis of Augmented CLMS for Second Order Noncircular Gaussian Signals. IEEE Signal Processing Letters, 2017, , 1-1.	2.1	24
102	Automatic Sleep Monitoring Using Ear-EEG. IEEE Journal of Translational Engineering in Health and Medicine, 2017, 5, 1-8.	2.2	57
103	Cost-effective quaternion minimum mean square error estimation: From widely linear to four-channel processing. Signal Processing, 2017, 136, 81-91.	2.1	20
104	On an RLS-like LMS adaptive filter. , 2017, , .		8
105	Widely linear adaptive frequency estimation for unbalanced three-phase power systems with multiple noisy measurements. , 2017, , .		6
106	Quantifying team cooperation through intrinsic multi-scale measures: respiratory and cardiac synchronization in choir singers and surgical teams. Royal Society Open Science, 2017, 4, 170853.	1.1	15
107	Hearables: feasibility of recording cardiac rhythms from head and in-ear locations. Royal Society Open Science, 2017, 4, 171214.	1.1	34
108	Distributed Particle Filtering of α -Stable Signals. IEEE Signal Processing Letters, 2017, 24, 1862-1866.	2.1	19

#	ARTICLE	IF	CITATIONS
109	The quaternion least mean magnitude phase adaptive filtering algorithm. , 2017, , .		5
110	A DFT enhanced complex LMS for digital adaptive spur cancellation. , 2017, , .		0
111	Resolving Ambiguities in the LF/HF Ratio: LF-HF Scatter Plots for the Categorization of Mental and Physical Stress from HRV. <i>Frontiers in Physiology</i> , 2017, 8, 360.	1.3	140
112	A Multivariate Multiscale Fuzzy Entropy Algorithm with Application to Uterine EMG Complexity Analysis. <i>Entropy</i> , 2017, 19, 2.	1.1	59
113	Physiological artifacts in scalp EEG and ear-EEG. <i>BioMedical Engineering OnLine</i> , 2017, 16, 103.	1.3	48
114	Cosine Similarity Entropy: Self-Correlation-Based Complexity Analysis of Dynamical Systems. <i>Entropy</i> , 2017, 19, 652.	1.1	36
115	Stage call: Cardiovascular reactivity to audition stress in musicians. <i>PLoS ONE</i> , 2017, 12, e0176023.	1.1	25
116	Discrimination of emotional states from scalp- and intracranial EEG using multiscale R�nyi entropy. <i>PLoS ONE</i> , 2017, 12, e0186916.	1.1	10
117	Motor Imagery Classification Using Mu and Beta Rhythms of EEG with Strong Uncorrelating Transform Based Complex Common Spatial Patterns. <i>Computational Intelligence and Neuroscience</i> , 2016, 2016, 1-13.	1.1	65
118	Financial Stress Through Complexity Science. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016, 10, 1112-1126.	7.3	7
119	A new proof of the generalized Hamiltonian�Real calculus. <i>Royal Society Open Science</i> , 2016, 3, 160211.	1.1	2
120	A distributed quaternion Kalman filter with applications to fly-by-wire systems. , 2016, , .		1
121	Tensor Networks for Dimensionality Reduction and Large-scale Optimization: Part 1 Low-Rank Tensor Decompositions. <i>Foundations and Trends in Machine Learning</i> , 2016, 9, 249-429.	46.6	255
122	Performance advantage of quaternion widely linear estimation: An approximate uncorrelating transform approach. , 2016, , .		4
123	Stability analysis of the least-mean-magnitude-phase algorithm. , 2016, , .		2
124	Modelling economic stress through financial systemic balance index. , 2016, , .		1
125	Quantifying cooperation in choir singing: Respiratory and cardiac synchronisation. , 2016, , .		7
126	Modelling stress in public speaking: Evolution of stress levels during conference presentations. , 2016, , .		8

#	ARTICLE	IF	CITATIONS
127	Steady-State Behavior of General Complex-Valued Diffusion LMS Strategies. IEEE Signal Processing Letters, 2016, 23, 722-726.	2.1	12
128	Blind source separation and artefact cancellation for single channel bioelectrical signal. , 2016, , .		8
129	Wearable In-Ear Encephalography Sensor for Monitoring Sleep. Preliminary Observations from Nap Studies. Annals of the American Thoracic Society, 2016, 13, 2229-2233.	1.5	60
130	A Distributed Quaternion Kalman Filter With Applications to Smart Grid and Target Tracking. IEEE Transactions on Signal and Information Processing Over Networks, 2016, , 1-1.	1.6	27
131	A least squares enhanced smart DFT technique for frequency estimation of unbalanced three-phase power systems. , 2016, , .		3
132	Optimization in Quaternion Dynamic Systems: Gradient, Hessian, and Learning Algorithms. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 249-261.	7.2	90
133	Discriminating Multiple Emotional States from EEG Using a Data-Adaptive, Multiscale Information-Theoretic Approach. International Journal of Neural Systems, 2016, 26, 1650005.	3.2	34
134	Adaptive-projection intrinsically transformed multivariate empirical mode decomposition in cooperative brain-computer interface applications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150199.	1.6	32
135	In-Ear EEG From Viscoelastic Generic Earpieces: Robust and Unobtrusive 24/7 Monitoring. IEEE Sensors Journal, 2016, 16, 271-277.	2.4	143
136	Developing an online steady-state visual evoked potential-based brain-computer interface system using EarEEG. , 2015, 2015, 2271-4.		11
137	Enabling quaternion derivatives: the generalized HR calculus. Royal Society Open Science, 2015, 2, 150255.	1.1	60
138	Real-time detection of rectilinear sources for wireless communication signals. , 2015, , .		0
139	EEG Recorded from the Ear: Characterizing the Ear-EEG Method. Frontiers in Neuroscience, 2015, 9, 438.	1.4	128
140	EEG Signal Quality of a Subcutaneous Recording System Compared to Standard Surface Electrodes. Journal of Sensors, 2015, 2015, 1-9.	0.6	29
141	Multi-Scale Pixel-Based Image Fusion Using Multivariate Empirical Mode Decomposition. Sensors, 2015, 15, 10923-10947.	2.1	30
142	A non-linear state space frequency estimator for three-phase power systems. , 2015, , .		4
143	A quaternion frequency estimator for three-phase power systems. , 2015, , .		20
144	The widely linear quaternion recursive total least squares. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
145	Design of Positive-Definite Quaternion Kernels. IEEE Signal Processing Letters, 2015, 22, 2117-2121.	2.1	5
146	Tensor Decompositions for Signal Processing Applications: From two-way to multiway component analysis. IEEE Signal Processing Magazine, 2015, 32, 145-163.	4.6	959
147	Performance Bounds of Quaternion Estimators. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3287-3292.	7.2	32
148	The Theory of Quaternion Matrix Derivatives. IEEE Transactions on Signal Processing, 2015, 63, 1543-1556.	3.2	68
149	Convergence analysis of an augmented algorithm for fully complex-valued neural networks. Neural Networks, 2015, 69, 44-50.	3.3	33
150	EarEEG based visual P300 Brain-Computer Interface. , 2015, , .		1
151	Distributed Widely Linear Kalman Filtering for Frequency Estimation in Power Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2015, 1, 45-57.	1.6	44
152	Intrinsic multi-scale analysis: a multi-variate empirical mode decomposition framework. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140709.	1.0	40
153	Common components analysis via linked blind source separation. , 2015, , .		3
154	Mean square analysis of the CLMS and ACLMS for non-circular signals: The approximate uncorrelating transform approach. , 2015, , .		17
155	Selective Time-Frequency Reassignment Based on Synchrosqueezing. IEEE Signal Processing Letters, 2015, 22, 2039-2043.	2.1	17
156	A Class of Multivariate Denoising Algorithms Based on Synchrosqueezing. IEEE Transactions on Signal Processing, 2015, , 1-1.	3.2	24
157	Enabling R-peak detection in wearable ECG: Combining matched filtering and Hilbert transform. , 2015, , .		28
158	Real-time estimation of quaternion impropriety. , 2015, , .		7
159	Co-Located Multimodal Sensing: A Next Generation Solution for Wearable Health. IEEE Sensors Journal, 2015, 15, 138-145.	2.4	23
160	Diffusion widely linear adaptive estimation of system frequency in distributed power grids. , 2014, , .		16
161	A particle filtering based kernel HMM predictor. , 2014, , .		2
162	A balancing voltage transformation for robust frequency estimation in unbalanced power systems. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
163	THEORY OF DIGITAL FILTER BANKS REALIZED VIA MULTIVARIATE EMPIRICAL MODE DECOMPOSITION. Advances in Adaptive Data Analysis, 2014, 06, 1450001.	0.6	5
164	Complex dual channel estimation: Cost effective widely linear adaptive filtering. Signal Processing, 2014, 104, 33-42.	2.1	25
165	Dynamically-Sampled Bivariate Empirical Mode Decomposition. IEEE Signal Processing Letters, 2014, 21, 857-861.	2.1	16
166	Autoconvolution and panorama: Augmenting second-order signal analysis. , 2014, , .		8
167	A Class of Quaternion Kalman Filters. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 533-544.	7.2	66
168	Quaternion Reproducing Kernel Hilbert Spaces: Existence and Uniqueness Conditions. IEEE Transactions on Information Theory, 2014, 60, 5736-5749.	1.5	52
169	The HC calculus, quaternion derivatives and caylay-hamilton form of quaternion adaptive filters and learning systems. , 2014, , .		0
170	Blind Separation of Dependent Sources With a Bounded Component Analysis Deflationary Algorithm. IEEE Signal Processing Letters, 2013, 20, 709-712.	2.1	15
171	Design of oversampled generalised discrete Fourier transform filter banks for application to subband-based blind source separation. IET Signal Processing, 2013, 7, 843-853.	0.9	6
172	Empirical Mode Decomposition-Based Time-Frequency Analysis of Multivariate Signals: The Power of Adaptive Data Analysis. IEEE Signal Processing Magazine, 2013, 30, 74-86.	4.6	348
173	Cancellation of Unwanted Doppler Radar Sensor Motion Using Empirical Mode Decomposition. IEEE Sensors Journal, 2013, 13, 1897-1904.	2.4	56
174	Bivariate Empirical Mode Decomposition for Unbalanced Real-World Signals. IEEE Signal Processing Letters, 2013, 20, 245-248.	2.1	41
175	Widely Linear Modeling for Frequency Estimation in Unbalanced Three-Phase Power Systems. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 353-363.	2.4	42
176	Augmented MVDR Spectrum-Based Frequency Estimation for Unbalanced Power Systems. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1917-1926.	2.4	21
177	EMD VIA MEMD: MULTIVARIATE NOISE-AIDED COMPUTATION OF STANDARD EMD. Advances in Adaptive Data Analysis, 2013, 05, 1350007.	0.6	146
178	Dynamical complexity analysis of multivariate financial data. , 2013, , .		2
179	The quaternion kernel least squares. , 2013, , .		15
180	The Augmented Complex Particle Filter. IEEE Transactions on Signal Processing, 2013, 61, 4341-4346.	3.2	10

#	ARTICLE	IF	CITATIONS
181	A Study of Evoked Potentials From Ear-EEG. IEEE Transactions on Biomedical Engineering, 2013, 60, 2824-2830.	2.5	151
182	On gradient calculation in quaternion adaptive filtering. , 2012, , .		19
183	The In-the-Ear Recording Concept: User-Centered and Wearable Brain Monitoring. IEEE Pulse, 2012, 3, 32-42.	0.1	192
184	On quaternion analyticity: Enabling quaternion-valued nonlinear adaptive filtering. , 2012, , .		6
185	A family of least-squares magnitude phase algorithms. , 2012, , .		0
186	Algorithmic Trading Using Phase Synchronization. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 399-404.	7.3	10
187	Multivariate Multiscale Entropy Analysis. IEEE Signal Processing Letters, 2012, 19, 91-94.	2.1	194
188	Widely linear state space models for frequency estimation in unbalanced three-phase systems. , 2012, , .		5
189	A novel augmented complex valued kernel LMS. , 2012, , .		22
190	Adaptive Frequency Estimation in Smart Grid Applications: Exploiting Noncircularity and Widely Linear Adaptive Estimators. IEEE Signal Processing Magazine, 2012, 29, 44-54.	4.6	145
191	Widely Linear Adaptive Frequency Estimation of Unbalanced Three-Phase Power Systems. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 74-83.	2.4	112
192	Class of Widely Linear Complex Kalman Filters. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 775-786.	7.2	64
193	On Revealing Replicating Structures in Multiway Data: A Novel Tensor Decomposition Approach. Lecture Notes in Computer Science, 2012, , 297-305.	1.0	14
194	A class of fast quaternion valued variable stepsize stochastic gradient learning algorithms for vector sensor processes. , 2011, , .		7
195	An Augmented Echo State Network for Nonlinear Adaptive Filtering of Complex Noncircular Signals. IEEE Transactions on Neural Networks, 2011, 22, 74-83.	4.8	88
196	Filter Bank Property of Multivariate Empirical Mode Decomposition. IEEE Transactions on Signal Processing, 2011, 59, 2421-2426.	3.2	375
197	Widely linear adaptive frequency estimation in three-phase power systems under unbalanced voltage sag conditions. , 2011, , .		3
198	Multivariate multiscale entropy: A tool for complexity analysis of multichannel data. Physical Review E, 2011, 84, 061918.	0.8	279

#	ARTICLE	IF	CITATIONS
199	Fast Independent Component Analysis Algorithm for Quaternion Valued Signals. IEEE Transactions on Neural Networks, 2011, 22, 1967-1978.	4.8	48
200	Emotional empathy transition patterns from human brain responses in interactive communication situations. AI and Society, 2011, 26, 301-315.	3.1	1
201	Augmented second-order statistics of quaternion random signals. Signal Processing, 2011, 91, 214-224.	2.1	190
202	Multivariate multiscale entropy for brain consciousness analysis. , 2011, 2011, 810-3.		27
203	The least-mean-magnitude-phase algorithm with applications to communications systems. , 2011, , .		10
204	An Adaptive Diffusion Augmented CLMS Algorithm for Distributed Filtering of Noncircular Complex Signals. IEEE Signal Processing Letters, 2011, 18, 659-662.	2.1	46
205	A unifying framework for the analysis of quaternion valued adaptive filters. , 2011, , .		14
206	Characterisation of Signal Modality: Exploiting Signal Nonlinearity in Machine Learning and Signal Processing. Journal of Signal Processing Systems, 2010, 61, 105-115.	1.4	16
207	Bivariate EMD analysis for aircraft component inspection. , 2010, , .		1
208	Identification of improper processes by variable tap-length complex-valued adaptive filters. , 2010, , .		1
209	A fast algorithm for blind extraction of smooth complex sources with application in EEG conditioning. , 2010, , .		0
210	EMD APPROACH TO MULTICHANNEL EEG DATA " THE AMPLITUDE AND PHASE COMPONENTS CLUSTERING ANALYSIS. Journal of Circuits, Systems and Computers, 2010, 19, 215-229.	1.0	53
211	Quaternion-Valued Stochastic Gradient-Based Adaptive IIR Filtering. IEEE Transactions on Signal Processing, 2010, 58, 3895-3901.	3.2	51
212	A Quaternion Widely Linear Adaptive Filter. IEEE Transactions on Signal Processing, 2010, 58, 4427-4431.	3.2	149
213	A Regularised Normalised Augmented Complex Least Mean Square algorithm. , 2010, , .		11
214	Noisy Component Extraction (NoiCE). IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 664-671.	3.5	14
215	Complex Blind Source Extraction From Noisy Mixtures Using Second-Order Statistics. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 1404-1416.	3.5	36
216	The widely linear quaternion recursive least squares filter. , 2010, , .		18

#	ARTICLE	IF	CITATIONS
217	Empirical Mode Decomposition for Trivariate Signals. IEEE Transactions on Signal Processing, 2010, 58, 1059-1068.	3.2	195
218	Performance analysis of the conventional complex LMS and augmented complex LMS algorithms. , 2010, , .		28
219	Quadrivariate Empirical Mode Decomposition. , 2010, , .		3
220	Optimisation of real functions of complex matrices for the adaptive estimation of complex sources. , 2010, , .		0
221	Mean and Mean-Square Analysis of the Complex LMS Algorithm for Non-Circular Gaussian Signals. , 2009, , .		9
222	A widely linear affine projection algorithm. , 2009, , .		3
223	Upper bounds on the capacities of non-controllable finite-state channels using dynamic programming methods. , 2009, , .		5
224	Study of the quaternion LMS and four-channel LMS algorithms. , 2009, , .		6
225	Duality between widely linear and dual channel adaptive filtering. , 2009, , .		17
226	Complex valued recurrent neural networks for noncircular complex signals. , 2009, , .		3
227	Applications of complex augmented kernels to wind profile prediction. , 2009, , .		14
228	A split quaternion nonlinear adaptive filter. , 2009, , .		5
229	The Quaternion LMS Algorithm for Adaptive Filtering of Hypercomplex Processes. IEEE Transactions on Signal Processing, 2009, 57, 1316-1327.	3.2	254
230	Multiscale Image Fusion Using Complex Extensions of EMD. IEEE Transactions on Signal Processing, 2009, 57, 1626-1630.	3.2	168
231	Adaptive IIR Filtering of Noncircular Complex Signals. IEEE Transactions on Signal Processing, 2009, 57, 4111-4118.	3.2	18
232	Blind extraction of noncircular complex signals using a widely linear predictor. , 2009, , .		2
233	Qualitative assessment of intrinsic mode functions of empirical mode decomposition. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	2
234	Post-Nonlinear Blind Extraction in the Presence of Ill-Conditioned Mixing. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2631-2638.	3.5	13

#	ARTICLE	IF	CITATIONS
235	Fusion of heterogeneous data sources: A quaternionic approach. , 2008, , .		7
236	Automated Detection of Epileptic Seizure Using Artificial Neural Network. , 2008, , .		1
237	Cascaded approach for microsleep data extraction. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
238	ONLINE DETECTION OF THE MODALITY OF COMPLEX-VALUED REAL WORLD SIGNALS. International Journal of Neural Systems, 2008, 18, 67-74.	3.2	10
239	Delay Time-Based Epileptic EEG Detection Using Artificial Neural Network. , 2008, , .		2
240	Rotation Invariant Complex Empirical Mode Decomposition. , 2007, , .		77
241	Noisy Component Extraction (Noise). , 2007, , .		3
242	Algorithms for BER-Constrained Variable-Length Equalizers driven by Channel Response Knowledge over Frequency-Selective Radio Channel. IEEE Vehicular Technology Conference, 2007, , .	0.2	0
243	Biometrics from Brain Electrical Activity: A Machine Learning Approach. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 738-742.	9.7	218
244	Blind Extraction of Noisy Events using Nonlinear Predictor. , 2007, , .		7
245	Blind Extraction of Microsleep Events. , 2007, , .		8
246	Blood Volume Signal Analysis with Empirical Mode Decomposition. , 2007, , .		3
247	Signal Modality Characterisation of EEG with Response to Steady-State Auditory and Visual BCI Paradigms. IEEE International Workshop on Machine Learning for Signal Processing, 2007, , .	0.0	3
248	Complex Empirical Mode Decomposition. IEEE Signal Processing Letters, 2007, 14, 101-104.	2.1	232
249	An augmented CRTRL for complex-valued recurrent neural networks. Neural Networks, 2007, 20, 1061-1066.	3.3	37
250	Sequential Data Fusion via Vector Spaces: Fusion of Heterogeneous Data in the Complex Domain. Journal of Signal Processing Systems, 2007, 48, 99-108.	1.0	11
251	EEG Based Biometric Framework for Automatic Identity Verification. Journal of Signal Processing Systems, 2007, 49, 243-250.	1.0	94
252	A Multimodal Approach to Communicative Interactivity Classification. Journal of Signal Processing Systems, 2007, 49, 317-328.	1.0	6

#	ARTICLE	IF	CITATIONS
253	Feature Fusion for the Detection of Microsleep Events. Journal of Signal Processing Systems, 2007, 49, 329-342.	1.0	57
254	A Novel Tool for Sequential Fusion of Nonlinear Features: A Sleep Psychology Application. , 2006, , .		0
255	A Two-Stage Algorithm for Post-Nonlinear Blind Source Separation. , 2006, , .		0
256	Blind Sequential Extraction of Post-Nonlinearly Mixed Sources using Kalman Filtering. , 2006, , .		2
257	Towards Qualitative Assessment of Machine Learning Algorithms: Utilising Signal Modality Characterisation. , 2006, , .		0
258	Towards Adaptive Blind Extraction of Post-Nonlinearly Mixed Signals. IEEE International Workshop on Machine Learning for Signal Processing, 2006, , .	0.0	7
259	Exploiting Signal Nongaussianity and Nonlinearity for Performance Assessment of Adaptive Filtering Algorithms: Qualitative Performance of Kalman Filter. , 2006, , .		0
260	A non-parametric test for detecting the complex-valued nature of time series. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2004, 8, 99-106.	0.7	11
261	Title is missing!. Neural Processing Letters, 2003, 17, 85-91.	2.0	7
262	Relating the Slope of the Activation Function and the Learning Rate Within a Recurrent Neural Network. Neural Computation, 1999, 11, 1069-1077.	1.3	30
263	Modeling Communication Atmosphere. , 0, , 353-369.		2