

# Danilo P Mandic

## List of Publications by Year in descending order

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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	Tensor Decompositions for Signal Processing Applications: From two-way to multiway component analysis. IEEE Signal Processing Magazine, 2015, 32, 145-163.	4.6	959
2	Filter Bank Property of Multivariate Empirical Mode Decomposition. IEEE Transactions on Signal Processing, 2011, 59, 2421-2426.	3.2	375
3	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
4	Multivariate multiscale entropy: A tool for complexity analysis of multichannel data. Physical Review E, 2011, 84, 061918.	0.8	279
5	Tensor Networks for Dimensionality Reduction and Large-scale Optimization: Part 1 Low-Rank Tensor Decompositions. Foundations and Trends in Machine Learning, 2016, 9, 249-429.	46.6	255
6	The Quaternion LMS Algorithm for Adaptive Filtering of Hypercomplex Processes. IEEE Transactions on Signal Processing, 2009, 57, 1316-1327.	3.2	254
7	Complex Empirical Mode Decomposition. IEEE Signal Processing Letters, 2007, 14, 101-104.	2.1	232
8	Biometrics from Brain Electrical Activity: A Machine Learning Approach. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 738-742.	9.7	218
9	Empirical Mode Decomposition for Trivariate Signals. IEEE Transactions on Signal Processing, 2010, 58, 1059-1068.	3.2	195
10	Multivariate Multiscale Entropy Analysis. IEEE Signal Processing Letters, 2012, 19, 91-94.	2.1	194
11	The In-the-Ear Recording Concept: User-Centered and Wearable Brain Monitoring. IEEE Pulse, 2012, 3, 32-42.	0.1	192
12	Augmented second-order statistics of quaternion random signals. Signal Processing, 2011, 91, 214-224.	2.1	190
13	Multiscale Image Fusion Using Complex Extensions of EMD. IEEE Transactions on Signal Processing, 2009, 57, 1626-1630.	3.2	168
14	A Study of Evoked Potentials From Ear-EEG. IEEE Transactions on Biomedical Engineering, 2013, 60, 2824-2830.	2.5	151
15	A Quaternion Widely Linear Adaptive Filter. IEEE Transactions on Signal Processing, 2010, 58, 4427-4431.	3.2	149
16	EMD VIA MEMD: MULTIVARIATE NOISE-AIDED COMPUTATION OF STANDARD EMD. Advances in Adaptive Data Analysis, 2013, 05, 1350007.	0.6	146
17	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
18	In-Ear EEG From Viscoelastic Generic Earpieces: Robust and Unobtrusive 24/7 Monitoring. IEEE Sensors Journal, 2016, 16, 271-277.	2.4	143

#	ARTICLE	IF	CITATIONS
19	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
20	EEG Recorded from the Ear: Characterizing the Ear-EEG Method. <i>Frontiers in Neuroscience</i> , 2015, 9, 438.	1.4	128
21	Widely Linear Adaptive Frequency Estimation of Unbalanced Three-Phase Power Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012, 61, 74-83.	2.4	112
22	Hearables: Multimodal physiological in-ear sensing. <i>Scientific Reports</i> , 2017, 7, 6948.	1.6	107
23	EEG Based Biometric Framework for Automatic Identity Verification. <i>Journal of Signal Processing Systems</i> , 2007, 49, 243-250.	1.0	94
24	Optimization in Quaternion Dynamic Systems: Gradient, Hessian, and Learning Algorithms. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016, 27, 249-261.	7.2	90
25	An Augmented Echo State Network for Nonlinear Adaptive Filtering of Complex Noncircular Signals. <i>IEEE Transactions on Neural Networks</i> , 2011, 22, 74-83.	4.8	88
26	Hearables: Automatic Overnight Sleep Monitoring With Standardized In-Ear EEG Sensor. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 203-212.	2.5	84
27	Convergence of the RMSProp deep learning method with penalty for nonconvex optimization. <i>Neural Networks</i> , 2021, 139, 17-23.	3.3	83
28	Rotation Invariant Complex Empirical Mode Decomposition. , 2007, , .		77
29	In-Ear EEG Biometrics for Feasible and Readily Collectable Real-World Person Authentication. <i>IEEE Transactions on Information Forensics and Security</i> , 2018, 13, 648-661.	4.5	74
30	The Theory of Quaternion Matrix Derivatives. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 1543-1556.	3.2	68
31	A Class of Quaternion Kalman Filters. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014, 25, 533-544.	7.2	66
32	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
33	Class of Widely Linear Complex Kalman Filters. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012, 23, 775-786.	7.2	64
34	A Complex Least Squares Enhanced Smart DFT Technique for Power System Frequency Estimation. <i>IEEE Transactions on Power Delivery</i> , 2017, 32, 1270-1278.	2.9	64
35	Enabling quaternion derivatives: the generalized HR calculus. <i>Royal Society Open Science</i> , 2015, 2, 150255.	1.1	60
36	Wearable In-Ear Encephalography Sensor for Monitoring Sleep. Preliminary Observations from Nap Studies. <i>Annals of the American Thoracic Society</i> , 2016, 13, 2229-2233.	1.5	60

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37	A Multivariate Multiscale Fuzzy Entropy Algorithm with Application to Uterine EMC Complexity Analysis. <i>Entropy</i> , 2017, 19, 2.	1.1	59
38	Feature Fusion for the Detection of Microsleep Events. <i>Journal of Signal Processing Systems</i> , 2007, 49, 329-342.	1.0	57
39	Automatic Sleep Monitoring Using Ear-EEG. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2017, 5, 1-8.	2.2	57
40	Cancellation of Unwanted Doppler Radar Sensor Motion Using Empirical Mode Decomposition. <i>IEEE Sensors Journal</i> , 2013, 13, 1897-1904.	2.4	56
41	EMD APPROACH TO MULTICHANNEL EEG DATA " THE AMPLITUDE AND PHASE COMPONENTS CLUSTERING ANALYSIS. <i>Journal of Circuits, Systems and Computers</i> , 2010, 19, 215-229.	1.0	53
42	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
43	Understanding the Basis of Graph Signal Processing via an Intuitive Example-Driven Approach [Lecture Notes]. <i>IEEE Signal Processing Magazine</i> , 2019, 36, 133-145.	4.6	53
44	In-Ear SpO <sub>2</sub> : A Tool for Wearable, Unobtrusive Monitoring of Core Blood Oxygen Saturation. <i>Sensors</i> , 2020, 20, 4879.	2.1	53
45	Quaternion Reproducing Kernel Hilbert Spaces: Existence and Uniqueness Conditions. <i>IEEE Transactions on Information Theory</i> , 2014, 60, 5736-5749.	1.5	52
46	Quaternion-Valued Stochastic Gradient-Based Adaptive IIR Filtering. <i>IEEE Transactions on Signal Processing</i> , 2010, 58, 3895-3901.	3.2	51
47	An Augmented Nonlinear LMS for Digital Self-Interference Cancellation in Full-Duplex Direct-Conversion Transceivers. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 4065-4078.	3.2	51
48	Fast Independent Component Analysis Algorithm for Quaternion Valued Signals. <i>IEEE Transactions on Neural Networks</i> , 2011, 22, 1967-1978.	4.8	48
49	Physiological artifacts in scalp EEG and ear-EEG. <i>BioMedical Engineering OnLine</i> , 2017, 16, 103.	1.3	48
50	An Adaptive Diffusion Augmented CLMS Algorithm for Distributed Filtering of Noncircular Complex Signals. <i>IEEE Signal Processing Letters</i> , 2011, 18, 659-662.	2.1	46
51	A Full Mean Square Analysis of CLMS for Second-Order Noncircular Inputs. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 5578-5590.	3.2	45
52	Distributed Widely Linear Kalman Filtering for Frequency Estimation in Power Networks. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2015, 1, 45-57.	1.6	44
53	Widely Linear Modeling for Frequency Estimation in Unbalanced Three-Phase Power Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 353-363.	2.4	42
54	Bivariate Empirical Mode Decomposition for Unbalanced Real-World Signals. <i>IEEE Signal Processing Letters</i> , 2013, 20, 245-248.	2.1	41

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55	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
56	An augmented CRTRL for complex-valued recurrent neural networks. Neural Networks, 2007, 20, 1061-1066.	3.3	37
57	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
58	Cosine Similarity Entropy: Self-Correlation-Based Complexity Analysis of Dynamical Systems. Entropy, 2017, 19, 652.	1.1	36
59	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
60	Hearables: feasibility of recording cardiac rhythms from head and in-ear locations. Royal Society Open Science, 2017, 4, 171214.	1.1	34
61	Maximum Likelihood Parameter Estimation of Unbalanced Three-Phase Power Signals. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 569-581.	2.4	34
62	Convergence analysis of an augmented algorithm for fully complex-valued neural networks. Neural Networks, 2015, 69, 44-50.	3.3	33
63	Performance Analysis of Quaternion-Valued Adaptive Filters in Nonstationary Environments. IEEE Transactions on Signal Processing, 2018, 66, 1566-1579.	3.2	33
64	Performance Bounds of Quaternion Estimators. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3287-3292.	7.2	32
65	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
66	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
67	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
68	Multi-Scale Pixel-Based Image Fusion Using Multivariate Empirical Mode Decomposition. Sensors, 2015, 15, 10923-10947.	2.1	30
69	EEG Signal Quality of a Subcutaneous Recording System Compared to Standard Surface Electrodes. Journal of Sensors, 2015, 2015, 1-9.	0.6	29
70	A Normalized Complex LMS Based Blind I/Q Imbalance Compensator for GFDM Receivers and Its Full Second-Order Performance Analysis. IEEE Transactions on Signal Processing, 2018, 66, 4701-4712.	3.2	29
71	Distributed Adaptive Filtering of $\alpha$ -Stable Signals. IEEE Signal Processing Letters, 2018, 25, 1450-1454.	2.1	29
72	Early Postnatal Heart Rate Variability in Healthy Newborn Infants. Frontiers in Physiology, 2019, 10, 922.	1.3	29

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73	Performance analysis of the conventional complex LMS and augmented complex LMS algorithms. , 2010, , .		28
74	Enabling R-peak detection in wearable ECG: Combining matched filtering and Hilbert transform. , 2015, , .		28
75	Multivariate multiscale entropy for brain consciousness analysis. , 2011, 2011, 810-3.		27
76	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
77	Bringing Wearable Sensors into the Classroom: A Participatory Approach [SP Education]. IEEE Signal Processing Magazine, 2018, 35, 110-130.	4.6	27
78	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
79	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
80	Complex dual channel estimation: Cost effective widely linear adaptive filtering. Signal Processing, 2014, 104, 33-42.	2.1	25
81	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
82	Fractional-Order Correntropy Adaptive Filters for Distributed Processing of $\alpha$ -Stable Signals. IEEE Signal Processing Letters, 2020, 27, 1884-1888.	2.1	25
83	Stage call: Cardiovascular reactivity to audition stress in musicians. PLoS ONE, 2017, 12, e0176023.	1.1	25
84	Data Analytics on Graphs Part I: Graphs and Spectra on Graphs. Foundations and Trends in Machine Learning, 2020, 13, 1-157.	46.6	25
85	A Class of Multivariate Denoising Algorithms Based on Synchrosqueezing. IEEE Transactions on Signal Processing, 2015, , 1-1.	3.2	24
86	Complementary Mean Square Analysis of Augmented CLMS for Second Order Noncircular Gaussian Signals. IEEE Signal Processing Letters, 2017, , 1-1.	2.1	24
87	Co-Located Multimodal Sensing: A Next Generation Solution for Wearable Health. IEEE Sensors Journal, 2015, 15, 138-145.	2.4	23
88	A novel augmented complex valued kernel LMS. , 2012, , .		22
89	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
90	Quaternion-Valued Distributed Filtering and Control. IEEE Transactions on Automatic Control, 2020, 65, 4246-4257.	3.6	22

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91	Augmented MVDR Spectrum-Based Frequency Estimation for Unbalanced Power Systems. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1917-1926.	2.4	21
92	Data Analytics on Graphs Part II: Signals on Graphs. Foundations and Trends in Machine Learning, 2020, 13, 158-331.	46.6	21
93	A quaternion frequency estimator for three-phase power systems. , 2015, , .		20
94	Cost-effective quaternion minimum mean square error estimation: From widely linear to four-channel processing. Signal Processing, 2017, 136, 81-91.	2.1	20
95	A novel in-ear sensor to determine sleep latency during the Multiple Sleep Latency Test in healthy adults with and without sleep restriction. Nature and Science of Sleep, 2018, Volume 10, 385-396.	1.4	20
96	Vertex-frequency graph signal processing: A comprehensive review. , 2020, 107, 102802.		20
97	On gradient calculation in quaternion adaptive filtering. , 2012, , .		19
98	Distributed Particle Filtering of $\alpha$ -Stable Signals. IEEE Signal Processing Letters, 2017, 24, 1862-1866.	2.1	19
99	Performance analysis of the deficient length augmented CLMS algorithm for second order noncircular complex signals. Signal Processing, 2018, 144, 214-225.	2.1	19
100	The Female Heart: Sex Differences in the Dynamics of ECG in Response to Stress. Frontiers in Physiology, 2018, 9, 1616.	1.3	19
101	A Novel Multivariate Sample Entropy Algorithm for Modeling Time Series Synchronization. Entropy, 2018, 20, 82.	1.1	19
102	Adaptive IIR Filtering of Noncircular Complex Signals. IEEE Transactions on Signal Processing, 2009, 57, 4111-4118.	3.2	18
103	The widely linear quaternion recursive least squares filter. , 2010, , .		18
104	Complexity science for sleep stage classification from EEG. , 2017, , .		18
105	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
106	Duality between widely linear and dual channel adaptive filtering. , 2009, , .		17
107	Mean square analysis of the CLMS and ACLMS for non-circular signals: The approximate uncorrelating transform approach. , 2015, , .		17
108	Selective Time-Frequency Reassignment Based on Synchrosqueezing. IEEE Signal Processing Letters, 2015, 22, 2039-2043.	2.1	17

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109	Widely Linear Quaternion-Valued Least-Mean Kurtosis Algorithm. IEEE Transactions on Signal Processing, 2020, 68, 5914-5922.	3.2	17
110	Wearable In-Ear PPG: Detailed Respiratory Variations Enable Classification of COPD. IEEE Transactions on Biomedical Engineering, 2022, 69, 2390-2400.	2.5	17
111	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
112	Diffusion widely linear adaptive estimation of system frequency in distributed power grids. , 2014, , .		16
113	Dynamically-Sampled Bivariate Empirical Mode Decomposition. IEEE Signal Processing Letters, 2014, 21, 857-861.	2.1	16
114	Hypercomplex Widely Linear Estimation Through the Lens of Underpinning Geometry. IEEE Transactions on Signal Processing, 2019, 67, 3985-3994.	3.2	16
115	Blind Separation of Dependent Sources With a Bounded Component Analysis Deflationary Algorithm. IEEE Signal Processing Letters, 2013, 20, 709-712.	2.1	15
116	The quaternion kernel least squares. , 2013, , .		15
117	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
118	Bidimensional Multivariate Empirical Mode Decomposition With Applications in Multi-Scale Image Fusion. IEEE Access, 2019, 7, 114261-114270.	2.6	15
119	The ClassA Framework: HRV Based Assessment of SNS and PNS Dynamics Without LF-HF Controversies. Frontiers in Physiology, 2019, 10, 505.	1.3	15
120	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
121	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
122	Applications of complex augmented kernels to wind profile prediction. , 2009, , .		14
123	Noisy Component Extraction (NoiCE). IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 664-671.	3.5	14
124	A unifying framework for the analysis of quaternion valued adaptive filters. , 2011, , .		14
125	Automatic detection of drowsiness using in-ear EEG. , 2018, , .		14
126	Complex-Valued Nonlinear Adaptive Filters With Applications in $\alpha$ -Stable Environments. IEEE Signal Processing Letters, 2019, 26, 1315-1319.	2.1	14



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127	On Revealing Replicating Structures in Multiway Data: A Novel Tensor Decomposition Approach. Lecture Notes in Computer Science, 2012, , 297-305.	1.0	14
128	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
129	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
130	Unmixing Oscillatory Brain Activity by EEG Source Localization and Empirical Mode Decomposition. Computational Intelligence and Neuroscience, 2019, 2019, 1-15.	1.1	13
131	Performance Analysis of Deficient Length Quaternion Least Mean Square Adaptive Filters. IEEE Transactions on Signal Processing, 2020, 68, 65-80.	3.2	13
132	Steady-State Behavior of General Complex-Valued Diffusion LMS Strategies. IEEE Signal Processing Letters, 2016, 23, 722-726.	2.1	12
133	Demystifying the Coherence Index in Compressive Sensing [Lecture Notes]. IEEE Signal Processing Magazine, 2020, 37, 152-162.	4.6	12
134	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
135	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
136	A Regularised Normalised Augmented Complex Least Mean Square algorithm. , 2010, , .		11
137	Developing an online steady-state visual evoked potential-based brain-computer interface system using EarEEG. , 2015, 2015, 2271-4.		11
138	Simultaneous diagonalisation of the covariance and complementary covariance matrices in quaternion widely linear signal processing. Signal Processing, 2018, 148, 193-204.	2.1	11
139	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
140	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
141	ONLINE DETECTION OF THE MODALITY OF COMPLEX-VALUED REAL WORLD SIGNALS. International Journal of Neural Systems, 2008, 18, 67-74.	3.2	10
142	The least-mean-magnitude-phase algorithm with applications to communications systems. , 2011, , .		10
143	Algorithmic Trading Using Phase Synchronization. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 399-404.	7.3	10
144	The Augmented Complex Particle Filter. IEEE Transactions on Signal Processing, 2013, 61, 4341-4346.	3.2	10

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145	Full Mean Square Performance Bounds on Quaternion Estimators for Improper Data. IEEE Transactions on Signal Processing, 2019, 67, 4093-4106.	3.2	10
146	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
147	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
148	Discrimination of emotional states from scalp- and intracranial EEG using multiscale Rényi entropy. PLoS ONE, 2017, 12, e0186916.	1.1	10
149	Robust decoding of the speech envelope from EEG recordings through deep neural networks. Journal of Neural Engineering, 2022, 19, 046007.	1.8	10
150	Mean and Mean-Square Analysis of the Complex LMS Algorithm for Non-Circular Gaussian Signals. , 2009, , .		9
151	Blind Extraction of Microsleep Events. , 2007, , .		8
152	Autoconvolution and panorama: Augmenting second-order signal analysis. , 2014, , .		8
153	Modelling stress in public speaking: Evolution of stress levels during conference presentations. , 2016, , .		8
154	Blind source separation and artefact cancellation for single channel bioelectrical signal. , 2016, , .		8
155	Cost-effective diffusion Kalman filtering with implicit measurement exchanges. , 2017, , .		8
156	On an RLS-like LMS adaptive filter. , 2017, , .		8
157	A perspective on CLMS as a deficient length augmented CLMS: Dealing with second order noncircularity. Signal Processing, 2018, 149, 236-245.	2.1	8
158	Common and Individual Feature Extraction Using Tensor Decompositions: a Remedy for the Curse of Dimensionality?. , 2018, , .		8
159	Support Tensor Machine for Financial Forecasting. , 2019, , .		8
160	A cost-effective nonlinear self-interference canceller in full-duplex direct-conversion transceivers. Signal Processing, 2019, 158, 4-14.	2.1	8
161	Variational Embedding Multiscale Sample Entropy: A Tool for Complexity Analysis of Multichannel Systems. Entropy, 2022, 24, 26.	1.1	8
162	Online censoring based complex-valued adaptive filters. Signal Processing, 2022, 200, 108638.	2.1	8

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163	Title is missing!. Neural Processing Letters, 2003, 17, 85-91.	2.0	7
164	Towards Adaptive Blind Extraction of Post-Nonlinearly Mixed Signals. IEEE International Workshop on Machine Learning for Signal Processing, 2006, , .	0.0	7
165	Blind Extraction of Noisy Events using Nonlinear Predictor. , 2007, , .		7
166	Fusion of heterogeneous data sources: A quaternionic approach. , 2008, , .		7
167	A class of fast quaternion valued variable stepsize stochastic gradient learning algorithms for vector sensor processes. , 2011, , .		7
168	Real-time estimation of quaternion impropriety. , 2015, , .		7
169	Financial Stress Through Complexity Science. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1112-1126.	7.3	7
170	Quantifying cooperation in choir singing: Respiratory and cardiac synchronisation. , 2016, , .		7
171	Complementary Cost Functions for Complex and Quaternion Widely Linear Estimation. IEEE Signal Processing Letters, 2019, 26, 1344-1348.	2.1	7
172	Hearables: Making Sense from Motion Artefacts in Ear-EEG for Real-Life Human Activity Classification. , 2021, 2021, 6889-6893.		7
173	A Multimodal Approach to Communicative Interactivity Classification. Journal of Signal Processing Systems, 2007, 49, 317-328.	1.0	6
174	Study of the quaternion LMS and four-channel LMS algorithms. , 2009, , .		6
175	On quaternion analyticity: Enabling quaternion-valued nonlinear adaptive filtering. , 2012, , .		6
176	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
177	Widely linear adaptive frequency estimation for unbalanced three-phase power systems with multiple noisy measurements. , 2017, , .		6
178	A physiology based model of heart rate variability. Biomedical Engineering Letters, 2019, 9, 425-434.	2.1	6
179	Upper bounds on the capacities of non-controllable finite-state channels using dynamic programming methods. , 2009, , .		5
180	A split quaternion nonlinear adaptive filter. , 2009, , .		5

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181	Widely linear state space models for frequency estimation in unbalanced three-phase systems. , 2012, , .		5
182	THEORY OF DIGITAL FILTER BANKS REALIZED VIA MULTIVARIATE EMPIRICAL MODE DECOMPOSITION. Advances in Adaptive Data Analysis, 2014, 06, 1450001.	0.6	5
183	Design of Positive-Definite Quaternion Kernels. IEEE Signal Processing Letters, 2015, 22, 2117-2121.	2.1	5
184	An online NIPALS algorithm for Partial Least Squares. , 2017, , .		5
185	The quaternion least mean magnitude phase adaptive filtering algorithm. , 2017, , .		5
186	Improved Coherence Index-Based Bound in Compressive Sensing. IEEE Signal Processing Letters, 2021, 28, 1110-1114.	2.1	5
187	Deep neural network representation and Generative Adversarial Learning. Neural Networks, 2021, 139, 199-200.	3.3	5
188	A non-linear state space frequency estimator for three-phase power systems. , 2015, , .		4
189	Performance advantage of quaternion widely linear estimation: An approximate uncorrelating transform approach. , 2016, , .		4
190	Probabilistic guidance for catheter tip motion in cardiac ablation procedures. Medical Image Analysis, 2018, 47, 1-14.	7.0	4
191	Feature Fusion via Tensor Network Summation. , 2018, , .		4
192	Tracking Dynamic Systems in $\hat{\pm}$ -Stable Environments. , 2019, , .		4
193	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
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