Philippe Ravier

List of Publications by Year in descending order

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65	691	12	24
papers	citations	h-index	g-index
65	65	65	801 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Experimental muscle pain changes the spatial distribution of upper trapezius muscle activity during sustained contraction. Clinical Neurophysiology, 2006, 117, 2436-2445.	0.7	117
2	Wavelet packets and de-noising based on higher-order-statistics for transient detection. Signal Processing, 2001, 81, 1909-1926.	2.1	62
3	An EMG fractal indicator having different sensitivities to changes in force and muscle fatigue during voluntary static muscle contractions. Journal of Electromyography and Kinesiology, 2005, 15, 210-221.	0.7	56
4	Multiangle dynamic light scattering for the improvement of multimodal particle size distribution measurements. Soft Matter, 2015, 11, 28-32.	1,2	47
5	Low bias histogram-based estimation of mutual information for feature selection. Pattern Recognition Letters, 2012, 33, 1302-1308.	2.6	36
6	On Lempel–Ziv complexity for multidimensional data analysis. Physica A: Statistical Mechanics and Its Applications, 2005, 345, 285-302.	1.2	30
7	Detection of PVC in ECG signals using fractional linear prediction. Biomedical Signal Processing and Control, 2016, 23, 42-51.	3.5	25
8	Combining an adapted wavelet analysis with fourth-order statistics for transient detection. Signal Processing, 1998, 70, 115-128.	2.1	22
9	Decomposition of Multi-Channel Intramuscular EMG Signals by Cyclostationary-Based Blind Source Separation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2035-2045.	2.7	20
10	A generating model of realistic synthetic heart sounds for performance assessment of phonocardiogram processing algorithms. Biomedical Signal Processing and Control, 2013, 8, 455-465.	3.5	16
11	On the Statistical Properties of Multiscale Permutation Entropy: Characterization of the Estimator's Variance. Entropy, 2019, 21, 450.	1.1	16
12	A new histogram-based estimation technique of entropy and mutual information using mean squared error minimization. Computers and Electrical Engineering, 2013, 39, 918-933.	3.0	13
13	STL Decomposition of Time Series Can Benefit Forecasting Done by Statistical Methods but Not by Machine Learning Ones. Engineering Proceedings, 2021, 5, 42.	0.4	13
14	GPS/Galileo Multipath Mitigation Using the First Side Peak of Double Delta Correlator. Wireless Personal Communications, 2011, 60, 321-333.	1.8	12
15	High accuracy event detection for Non-Intrusive Load Monitoring. , 2017, , .		12
16	The vastus lateralis neuromuscular activity during all-out cycling exercise. Journal of Electromyography and Kinesiology, 2009, 19, 922-930.	0.7	11
17	Modeling and estimation of transient current signals. , 2015, , .		11
18	Determination of turbulence properties by using empirical mode decomposition on periodic and random perturbed flows. Experiments in Fluids, 2010, 49, 379-390.	1.1	10

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19	A New Concept of Virtual Patient for Real-Time ECG Analyzers. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 939-946.	2.4	10
20	General analytical models characterizing MBOC modulated signal. Aerospace Science and Technology, 2016, 50, 112-126.	2.5	10
21	Assessment of the non-Gaussianity and non-linearity levels of simulated sEMG signals on stationary segments. Journal of Electromyography and Kinesiology, 2017, 32, 70-82.	0.7	10
22	Redefining Performance Evaluation Tools for Real-Time QRS Complex Classification Systems. IEEE Transactions on Biomedical Engineering, 2007, 54, 1706-1710.	2.5	8
23	Time-varying delay estimators for measuring muscle fiber conduction velocity from the surface electromyogram. Biomedical Signal Processing and Control, 2015, 22, 126-134.	3 . 5	7
24	Legendre polynomial modeling of time-varying delay applied to surface EMG signalsâ€"Derivation of the appropriate time-dependent CRBs. Signal Processing, 2015, 114, 34-44.	2.1	7
25	Multi-Level Pre-Correlation RFI Flagging for Real-Time Implementation on UniBoard. Journal of Astronomical Instrumentation, 2016, 05, .	0.8	7
26	Use of cardiorespiratory coherence to separate spectral bands of the heart rate variability. Biomedical Signal Processing and Control, 2018, 46, 260-267.	3 . 5	7
27	A measurement system for creating datasets of on/off-controlled electrical loads. , 2016, , .		6
28	Theoretical Study of Multiscale Permutation Entropy on Finite-Length Fractional Gaussian Noise. , $2018, , .$		6
29	The Impact of Linear Filter Preprocessing in the Interpretation of Permutation Entropy. Entropy, 2021, 23, 787.	1.1	6
30	Improvement of Statistical Performance of Ordinal Multiscale Entropy Techniques Using Refined Composite Downsampling Permutation Entropy. Entropy, 2021, 23, 30.	1.1	6
31	Do the generalized correlation methods improve time delay estimation of the muscle fiber conduction velocity?. , $2011, \ldots$		5
32	Comparison of Maximum Likelihood and Time Frequency Approaches for Time Varying Delay Estimation in The Case of Electromyography Signals. , 2012, , .		5
33	A binning formula of bi-histogram for joint entropy estimation using mean square error minimization. Pattern Recognition Letters, 2018, 101, 21-28.	2.6	5
34	Bearing Signal Enhancement Using Taylor- <inline-formula> <tex-math notation="LaTeX">\$H_{infty}\$ </tex-math> </inline-formula> Estimator Under Variable Speed Condition. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2538-2547.	2.4	5
35	HRV spectral estimation based on constrained Gaussian modeling in the nonstationary case. Biomedical Signal Processing and Control, 2013, 8, 483-490.	3 . 5	4
36	A new cyclostationarity-based blind approach for motor unit's firing rate automated detection in electromyographic signals. , 2014, , .		4

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37	Optimized Method for Generating and Acquiring GPS Gold Codes. International Journal of Antennas and Propagation, 2015, 2015, 1-9.	0.7	4
38	Characterizing Parkinson's desease using EMG fractional linear prediction. , 2016, , .		4
39	On the optimal number estimation of selected features using joint histogram based mutual information for speech emotion recognition. Journal of King Saud University - Computer and Information Sciences, 2021, 33, 1074-1083.	2.7	4
40	The Refined Composite Downsampling Permutation Entropy Is a Relevant Tool in the Muscle Fatigue Study Using sEMG Signals. Entropy, 2021, 23, 1655.	1.1	4
41	Relevant harmonics selection based on mutual information for electrical appliances identification. International Journal of Computer Applications in Technology, 2020, 62, 102.	0.3	3
42	Electrical Appliances Identification and Clustering using Novel Turn-on Transient Features., 2017,,.		3
43	Statistical features extraction based on the discrete wavelet transform for electrical appliances identification., 2020,,.		3
44	Accuracy comparison of low-cost energy meters for home electrical consumption assessment. , 2016, , .		2
45	Extraction and selection of binarised statistical image features for fingerprint recognition. International Journal of Biometrics, 2017, 9, 67.	0.3	2
46	Order tracking usingHâ^žestimator and polynomial approximation. Mechanics and Industry, 2017, 18, 808.	0.5	2
47	Extraction and selection of statistical harmonics features for electrical appliances identification using k-NN classifier combined with voting rules method. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, 27, 2980-2997.	0.9	2
48	Electrical transient modeling for appliance characterization. Eurasip Journal on Advances in Signal Processing, 2019, 2019, .	1.0	2
49	Wavelet Cepstral Coefficients for Electrical Appliances Identification using Hidden Markov Models. , 2018, , .		2
50	Validation of the time delay estimators applied to the surface electromyography signals during isometric isotonic and isometric anisotonic contraction. , $2015, , .$		1
51	Muscular activation intervals detection using gaussian mixture model GMM applied to sEMG signals. , 2016, , .		1
52	Time-Varying Delay Estimation Applied to the Surface Electromyography Signals Using the Parametric Approach. Fluctuation and Noise Letters, 2018, 17, 1850015.	1.0	1
53	On the Deterministic Estimaton of Multiscale Permutation Entropy of High-Order Autoregressive-Moving-Average Processes as a Function of ARMA Parameters. , 2021, , .		1
54	Extraction and selection of binarised statistical image features for fingerprint recognition. International Journal of Biometrics, 2017, 9, 67.	0.3	1

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55	Time Varying Delay Estimators for Measuring Muscle Fiber Conduction Veloity: Effects of Non-stationarity of the Data. IFMBE Proceedings, 2018, , 415-419.	0.2	1
56	Mutual Information Based Feature Selection for Fingerprint Identification. Informatica (Slovenia), 2019, 43, .	0.6	1
57	Reduction of the impulsive noise emitted by a resistive load commutation. , 2008, , .		O
58	A new real time and efficient method to automatically count plastic cards. , 2008, , .		0
59	Assessment of an MCMC algorithm convergence for Bayesian estimation of the particle size distribution from multiangle dynamic light scattering measurements. , 2015, , .		O
60	Corrigendum to "Optimized Method for Generating and Acquiring GPS Gold Codesâ€: International Journal of Antennas and Propagation, 2021, 2021, 1-1.	0.7	0
61	Analyse de l'activité à bord de dragues aspiratricesÂ: une méthodologie exploratoire combinant données psychologiques et physiologiques. Activités, 2012, 09, .	0.1	O
62	Local and Global Feature Selection for Prosodic Classification of the Word's Uses. , 2017, , .		0
63	An Effective Time Varying Delay Estimator Applied to Surface Electromyographic Signals. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 214-225.	0.2	O
64	Relevant harmonics selection based on mutual information for electrical appliances identification. International Journal of Computer Applications in Technology, 2020, 62, 102.	0.3	0
65	Heartbeat Classification Using ANFIS System and QRS Complex Features Extraction. , 2020, , .		O