

German Castellanos-Dominguez

List of Publications by Citations

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191
papers

1,206
citations

16
h-index

27
g-index

213
ext. papers

1,426
ext. citations

2
avg, IF

4.71
L-index

#	Paper	IF	Citations
191	Automatic detection of pathological voices using complexity measures, noise parameters, and mel-cepstral coefficients. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 370-9	5	86
190	Selection of dynamic features based on time-frequency representations for heart murmur detection from phonocardiographic signals. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 118-37	4.7	54
189	Feedback on the Surveillance 8 challenge: Vibration-based diagnosis of a Safran aircraft engine. <i>Mechanical Systems and Signal Processing</i> , 2017 , 97, 112-144	7.8	53
188	An improved method for voice pathology detection by means of a HMM-based feature space transformation. <i>Pattern Recognition</i> , 2010 , 43, 3100-3112	7.7	48
187	Digital auscultation analysis for heart murmur detection. <i>Annals of Biomedical Engineering</i> , 2009 , 37, 337-53	4.7	47
186	Solving the EEG inverse problem based on space-time-frequency structured sparsity constraints. <i>NeuroImage</i> , 2015 , 118, 598-612	7.9	43
185	Feature extraction from parametric time-frequency representations for heart murmur detection. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 2716-32	4.7	39
184	Time-series discrimination using feature relevance analysis in motor imagery classification. <i>Neurocomputing</i> , 2015 , 151, 122-129	5.4	32
183	Global and local choice of the number of nearest neighbors in locally linear embedding. <i>Pattern Recognition Letters</i> , 2011 , 32, 2171-2177	4.7	28
182	Unsupervised feature relevance analysis applied to improve ECG heartbeat clustering. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 108, 250-61	6.9	26
181	Detection of obstructive sleep apnea in ECG recordings using time-frequency distributions and dynamic features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 5553-62	0.9	23
180	Emotion Discrimination Using Spatially Compact Regions of Interest Extracted from Imaging EEG Activity. <i>Frontiers in Computational Neuroscience</i> , 2016 , 10, 55	3.5	19
179	Reconstruction of Neural Activity from EEG Data Using Dynamic Spatiotemporal Constraints. <i>International Journal of Neural Systems</i> , 2016 , 26, 1650026	6.2	19
178	Building a Cepstrum-HMM kernel for Apnea identification. <i>Neurocomputing</i> , 2014 , 132, 159-165	5.4	18
177	Nonlinear model for condition monitoring of non-stationary vibration signals in ship driveline application. <i>Mechanical Systems and Signal Processing</i> , 2014 , 44, 134-148	7.8	17
176	Identification and monitoring of brain activity based on stochastic relevance analysis of short-time EEG rhythms. <i>BioMedical Engineering OnLine</i> , 2014 , 13, 123	4.1	16
175	Locally linear embedding based on correntropy measure for visualization and classification. <i>Neurocomputing</i> , 2012 , 80, 19-30	5.4	16

174	Nonlinear Dynamics for Hypernasality Detection in Spanish Vowels and Words. <i>Cognitive Computation</i> , 2013 , 5, 448-457	4.4	16
173	Improved Localization of Seizure Onset Zones Using Spatiotemporal Constraints and Time-Varying Source Connectivity. <i>Frontiers in Neuroscience</i> , 2017 , 11, 156	5.1	16
172	Selection of time-variant features for earthquake classification at the Nevado-del-Ruiz volcano. <i>Computers and Geosciences</i> , 2013 , 51, 293-304	4.5	15
171	Unsupervised Kernel Function Building Using Maximization of Information Potential Variability. <i>Lecture Notes in Computer Science</i> , 2014 , 335-342	0.9	15
170	Estimation of dynamic neural activity using a Kalman filter approach based on physiological models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 2914-7	0.9	14
169	Regularization parameter choice in locally linear embedding. <i>Neurocomputing</i> , 2010 , 73, 1595-1605	5.4	14
168	A Finite-Difference Solution for the EEG Forward Problem in Inhomogeneous Anisotropic Media. <i>Brain Topography</i> , 2019 , 32, 229-239	4.3	14
167	Improvement of an extended Kalman filter power line interference suppressor for ECG signals 2007 ,		13
166	Predictability of gene ontology slim-terms from primary structure information in Embryophyta plant proteins. <i>BMC Bioinformatics</i> , 2013 , 14, 68	3.6	12
165	Kernel-based dimensionality reduction using Renyi's Entropy measures of similarity. <i>Neurocomputing</i> , 2017 , 222, 36-46	5.4	12
164	Unsupervised classification of atrial heartbeats using a prematurity index and wave morphology features. <i>Medical and Biological Engineering and Computing</i> , 2009 , 47, 731-41	3.1	12
163	Centered Kernel Alignment Enhancing Neural Network Pretraining for MRI-Based Dementia Diagnosis. <i>Computational and Mathematical Methods in Medicine</i> , 2016 , 2016, 9523849	2.8	12
162	Kernel-Based Relevance Analysis with Enhanced Interpretability for Detection of Brain Activity Patterns. <i>Frontiers in Neuroscience</i> , 2017 , 11, 550	5.1	11
161	Motor imagery classification using feature relevance analysis: An Emotiv-based BCI system 2014 ,		11
160	Kernel based hand gesture recognition using kinect sensor 2012 ,		11
159	Image Segmentation Based on Multi-Kernel Learning and Feature Relevance Analysis. <i>Lecture Notes in Computer Science</i> , 2012 , 501-510	0.9	11
158	Selection of Nonstationary Dynamic Features for Obstructive Sleep Apnoea Detection in Children. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011 , 2011,	1.9	11
157	A generalization of dissimilarity representations using feature lines and feature planes. <i>Pattern Recognition Letters</i> , 2009 , 30, 242-254	4.7	11

156	Non uniform Embedding based on Relevance Analysis with reduced computational complexity: Application to the detection of pathologies from biosignal recordings. <i>Neurocomputing</i> , 2014 , 132, 148-158	5.4	9
155	Detection of obstructive sleep apnoea using dynamic filter-banked features. <i>Expert Systems With Applications</i> , 2012 , 39, 9118-9128	7.8	9
154	Improvement of ECG signal quality measurement using correlation and diversity-based approaches. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 4295-8	0.9	9
153	Complexity analysis of pathological voices by means of hidden Markov entropy measurements. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 2248-51	0.9	9
152	Automatic Choice of the Number of Nearest Neighbors in Locally Linear Embedding. <i>Lecture Notes in Computer Science</i> , 2009 , 77-84	0.9	9
151	Reviewing, selecting and evaluating features in distinguishing fine changes of global texture. <i>Pattern Analysis and Applications</i> , 2014 , 17, 1-15	2.3	8
150	Time-frequency based feature selection for discrimination of non-stationary biosignals. <i>Eurasip Journal on Advances in Signal Processing</i> , 2012 , 2012,	1.9	8
149	Dimensionality reduction oriented toward the feature visualization for ischemia detection. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009 , 13, 590-8		8
148	Comparison of the nearest feature classifiers for face recognition. <i>Machine Vision and Applications</i> , 2006 , 17, 279-285	2.8	8
147	Novel signal-dependent filter bank method for identification of multiple basal ganglia nuclei in Parkinsonian patients. <i>Journal of Neural Engineering</i> , 2011 , 8, 036026	5	7
146	Entropy-Based Estimation of Event-Related De/Synchronization in Motor Imagery Using Vector-Quantized Patterns. <i>Entropy</i> , 2020 , 22,	2.8	7
145	Single-Trial Kernel-Based Functional Connectivity for Enhanced Feature Extraction in Motor-Related Tasks. <i>Sensors</i> , 2021 , 21,	3.8	7
144	Non-linear Parameter Estimates from Non-stationary MEG Data. <i>Frontiers in Neuroscience</i> , 2016 , 10, 366	5.1	7
143	Training subset selection in Hourly Ontario Energy Price forecasting using time series clustering-based stratification. <i>Neurocomputing</i> , 2015 , 156, 268-279	5.4	6
142	Background modeling using Object-based Selective Updating and Correntropy adaptation. <i>Image and Vision Computing</i> , 2016 , 45, 22-36	3.7	6
141	Infrared thermal image segmentation using expectation-maximization-based clustering 2012 ,		6
140	Feature relevance analysis supporting automatic motor imagery discrimination in EEG based BCI systems. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 7068-71	0.9	6
139	Nonlinear Dynamics for Hypernasality Detection. <i>Lecture Notes in Computer Science</i> , 2011 , 207-214	0.9	6

138	Rainfall Forecasting Based on Ensemble Empirical Mode Decomposition and Neural Networks. <i>Lecture Notes in Computer Science</i> , 2013 , 471-480	0.9	6
137	CNN-based framework using spatial dropping for enhanced interpretation of neural activity in motor imagery classification. <i>Brain Informatics</i> , 2020 , 7, 8	5.9	6
136	Machine Fault Detection Based on Filter Bank Similarity Features Using Acoustic and Vibration Analysis. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-14	1.1	6
135	Enhanced Data Covariance Estimation Using Weighted Combination of Multiple Gaussian Kernels for Improved M/EEG Source Localization. <i>International Journal of Neural Systems</i> , 2019 , 29, 1950001	6.2	5
134	Evaluation of Region-of-Interest coders using perceptual image quality assessments. <i>Journal of Visual Communication and Image Representation</i> , 2013 , 24, 1316-1327	2.7	5
133	iLU Preconditioning of the Anisotropic-Finite-Difference Based Solution for the EEG Forward Problem. <i>Lecture Notes in Computer Science</i> , 2015 , 408-418	0.9	5
132	Estimation of relevant time-frequency features using Kendall coefficient for articulator position inference. <i>Speech Communication</i> , 2013 , 55, 99-110	2.8	5
131	Kernel spectral clustering for dynamic data using multiple kernel learning 2013 ,		5
130	Local binary fitting energy solution by graph cuts for MRI segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 5131-4	0.9	5
129	Predictability of protein subcellular locations by pattern recognition techniques. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 5512-5	0.9	5
128	Video Segmentation Framework Based on Multi-kernel Representations and Feature Relevance Analysis for Object Classification. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 273-283	0.4	5
127	GMM Background Modeling Using Divergence-Based Weight Updating. <i>Lecture Notes in Computer Science</i> , 2017 , 282-290	0.9	4
126	Supervised piecewise network connectivity analysis for enhanced confidence of auditory oddball tasks. <i>Biomedical Signal Processing and Control</i> , 2019 , 52, 341-346	4.9	4
125	Emulating the perceptual capabilities of a human evaluator to map the GRB scale for the assessment of voice disorders. <i>Engineering Applications of Artificial Intelligence</i> , 2019 , 82, 236-251	7.2	4
124	XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013. <i>IFMBE Proceedings</i> , 2014 ,	0.2	4
123	A latent force model for describing electric propagation in deep brain stimulation: a simulation study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2617-20	0.9	4
122	A Kernel-Based Representation to Support 3D MRI Unsupervised Clustering 2014 ,		4
121	Novel heuristic search for ventricular arrhythmia detection using normalized cut clustering. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 7076-9	0.9	4

120	Relevance Analysis of Stochastic Biosignals for Identification of Pathologies. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011 , 2011,	1.9	4
119	Evaluation of feature extraction techniques on event-related potentials for detection of attention-deficit/hyperactivity disorder. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 2714-2717	0.9	4
118	Weighted-PCA for unsupervised classification of cardiac arrhythmias. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 1906-9	0.9	4
117	Complexity-based analysis for the detection of heart murmurs. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 2728-31	0.9	4
116	Prediction of protein subcellular localization based on variable-length motifs detection and dissimilarity based classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 945-8	0.9	4
115	Influence of delay time on regularity estimation for voice pathology detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 4217-20	0.9	4
114	Weighted feature extraction with a functional data extension. <i>Neurocomputing</i> , 2010 , 73, 1760-1773	5.4	4
113	Feature extraction of speech signals in emotion identification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 2590-3	0.9	4
112	Identification of Relevant Inter-channel EEG Connectivity Patterns: A Kernel-Based Supervised Approach. <i>Lecture Notes in Computer Science</i> , 2016 , 14-23	0.9	4
111	Regression Networks for Neurophysiological Indicator Evaluation in Practicing Motor Imagery Tasks. <i>Brain Sciences</i> , 2020 , 10,	3.4	3
110	Individual Detection of Citrus and Avocado Trees Using Extended Maxima Transform Summation on Digital Surface Models. <i>Remote Sensing</i> , 2020 , 12, 1633	5	3
109	A Weighted Dynamic Inverse Problem for electroencephalographic current density reconstruction 2013 ,		3
108	Neural Activity Estimation from EEG Using an Iterative Dynamic Inverse Problem Solution. <i>Lecture Notes in Computer Science</i> , 2015 , 388-397	0.9	3
107	EEG Rhythm Extraction Based on Relevance Analysis and Customized Wavelet Transform. <i>Lecture Notes in Computer Science</i> , 2015 , 419-428	0.9	3
106	Estimation of M/EEG Non-stationary Brain Activity Using Spatio-temporal Sparse Constraints. <i>Lecture Notes in Computer Science</i> , 2015 , 429-438	0.9	3
105	Quadratic Problem Formulation with Linear Constraints for Normalized Cut Clustering. <i>Lecture Notes in Computer Science</i> , 2014 , 408-415	0.9	3
104	Classification of premature ventricular contraction based on Discrete Wavelet Transform for real time applications 2013 ,		3
103	Current density reconstruction from EEG based on a time varying nonlinear physiological model 2011 ,		3

102	On determining available stochastic features by spectral splitting in obstructive sleep apnea detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 6079-82</i>	0.9	3
101	An adaptation of Pfam profiles to predict protein sub-cellular localization in Gram positive bacteria. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 5554-7</i>	0.9	3
100	Multi-resolution analysis for region of interest extraction in thermographic nondestructive evaluation 2012,		3
99	TFR-based feature extraction using PCA approaches for discrimination of heart murmurs. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 5665-8</i>	0.9	3
98	EEG Rhythm Analysis Using Stochastic Relevance. <i>IFMBE Proceedings, 2014, 658-661</i>	0.2	3
97	Deep Neural Regression Prediction of Motor Imagery Skills Using EEG Functional Connectivity Indicators. <i>Sensors, 2021, 21,</i>	3.8	3
96	Short-Time/-Angle Spectral Analysis for Vibration Monitoring of Bearing Failures under Variable Speed. <i>Applied Sciences (Switzerland), 2021, 11, 3369</i>	2.6	3
95	Influence of Patient-Specific Head Modeling on EEG Source Imaging. <i>Computational and Mathematical Methods in Medicine, 2020, 2020, 5076865</i>	2.8	3
94	Blind Extraction of Instantaneous Frequency for Order Tracking in Rotating Machines Under Non-stationary Operating Conditions. <i>Applied Condition Monitoring, 2016, 99-110</i>	0.2	2
93	EEG Source Imaging Based on Dynamic Sparse Coding as ADHD Biomarker. <i>Lecture Notes in Computer Science, 2017, 416-425</i>	0.9	2
92	Similarity preservation in dimensionality reduction using a kernel-based cost function. <i>Pattern Recognition Letters, 2019, 125, 318-324</i>	4.7	2
91	Feature extraction by statistical contact potentials and wavelet transform for predicting subcellular localizations in gram negative bacterial proteins. <i>Journal of Theoretical Biology, 2015, 364, 121-30</i>	2.3	2
90	Estimation of dynamic neural activity including informative priors into a Kalman filter based approach 2014,		2
89	Video analysis based on Multi-Kernel Representation with automatic parameter choice. <i>Neurocomputing, 2013, 100, 117-126</i>	5.4	2
88	Multiobjective optimization-based design of wearable electrocardiogram monitoring systems. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 3029-32</i>	0.9	2
87	Influence of anisotropic white matter modeling on EEG source localization. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 4920-3</i>	0.9	2
86	A strategy for classifying imbalanced data sets based on particle swarm optimization 2012,		2
85	Feature Selection by Relevance Analysis for Abandoned Object Classification. <i>Lecture Notes in Computer Science, 2012, 837-844</i>	0.9	2

84	A comparison of multi-label techniques based on problem transformation for protein functional prediction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 2688-91</i>	0.9	2
83	Discrimination of Epileptic Events Using EEG Rhythm Decomposition. <i>Lecture Notes in Computer Science, 2011, 436-444</i>	0.9	2
82	Functional data representation using correntropy locally linear embedding 2010,		2
81	A new approach to discriminative HMM training for pathological voice classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 4674-7</i>	0.9	2
80	Unsupervised feature selection in cardiac arrhythmias analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 2571-4</i>	0.9	2
79	EEG source localization based on multivariate autoregressive models using Kalman filtering. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 7151-4</i>	0.9	2
78	Quantifying image distortion based on Gabor filter bank and multiple regression analysis 2012,		2
77	Improved parametric estimation of time frequency representations for cardiac murmur discrimination 2008,		2
76	Image-Based Learning Using Gradient Class Activation Maps for Enhanced Physiological Interpretability of Motor Imagery Skills. <i>Applied Sciences (Switzerland), 2022, 12, 1695</i>	2.6	2
75	Adaptive Bayesian label fusion using kernel-based similarity metrics in hippocampus segmentation. <i>Journal of Medical Imaging, 2019, 6, 014003</i>	2.6	2
74	Dynamic Modeling of Common Brain Neural Activity in Motor Imagery Tasks. <i>Frontiers in Neuroscience, 2020, 14, 714</i>	5.1	2
73	Image Synthesis Based on Manifold Learning. <i>Lecture Notes in Computer Science, 2011, 405-412</i>	0.9	2
72	An Enhanced Joint Hilbert Embedding-Based Metric to Support Mocap Data Classification with Preserved Interpretability. <i>Sensors, 2021, 21,</i>	3.8	2
71	Effectiveness of morphological and spectral heartbeat characterization on arrhythmia clustering for Holter recordings 2015,		1
70	Kernel Centered Alignment Supervised Metric for Multi-Atlas Segmentation. <i>Lecture Notes in Computer Science, 2015, 658-667</i>	0.9	1
69	Order Tracking by Square-Root Cubature Kalman Filter with Constraints. <i>Lecture Notes in Computer Science, 2016, 104-114</i>	0.9	1
68	Supervised Brain Tissue Segmentation Using a Spatially Enhanced Similarity Metric. <i>Lecture Notes in Computer Science, 2015, 398-407</i>	0.9	1
67	Connectivity Analysis of Motor Imagery Paradigm Using Short-Time Features and Kernel Similarities. <i>Lecture Notes in Computer Science, 2015, 439-448</i>	0.9	1

66	Kernel-based relevant feature extraction to support Motor Imagery classification 2015 ,		1
65	Feature selection for discrimination of fractionation levels in atrial electrograms. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 1595-8</i>	0.9	1
64	Entropy-based multichannel measure of stationarity for characterization of motor imagery patterns. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 1469-72</i>	0.9	1
63	Very long-term ECG monitoring patch with improved functionality and wearability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 5964-7</i>	0.9	1
62	Optimization of Cost Sensitive Models to Improve Prediction of Molecular Functions. <i>Communications in Computer and Information Science, 2014, 207-222</i>	0.3	1
61	Tensor-product kernel-based representation encoding joint MRI view similarity. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 3897-900</i>	0.9	1
60	Correntropy-Based Adaptive Learning to Support Video Surveillance Systems 2014 ,		1
59	Fractionated electrograms and rotors detection in chronic atrial fibrillation using model-based clustering. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 1579-82</i>	0.9	1
58	Extraction of stationary components in biosignal discrimination. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 1-4</i>	0.9	1
57	Relevance and redundancy analysis of PCG signals in the detection of heart murmurs by ANOVA 2012 ,		1
56	Wearable and superhydrophobic hardware for ambulatory biopotential acquisition. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 1847-50</i>	0.9	1
55	Bayesian estimation of neural activity for non stationary sources using time frequency based priors 2013 ,		1
54	Reduction of irrelevant and redundant data from TFRs for EEG signal classification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 4010-3</i>	0.9	1
53	Comparative analysis of time frequency representations for discrimination of epileptic activity in EEG signals 2011 ,		1
52	EEG seizure identification by using optimized wavelet decomposition. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 2675-8</i>	0.9	1
51	Biomedical data analysis by supervised manifold learning. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 41-4</i>	0.9	1
50	Image information access using wedgelet filters 2008 ,		1
49	Relevance of Common Spatial Patterns Ranked by Kernel PCA in Motor Imagery Classification. <i>Lecture Notes in Computer Science, 2019, 13-20</i>	0.9	1

48	Neural Decoding Using Kernel-Based Functional Representation of ECoG Recordings. <i>Lecture Notes in Computer Science</i> , 2014 , 247-254	0.9	1
47	Non-linear Covariance Estimation for Reconstructing Neural Activity with MEG/EEG Data. <i>Lecture Notes in Computer Science</i> , 2017 , 334-344	0.9	1
46	NonReferenced Quality Assessment of Image Processing Methods in Infrared Non-destructive Testing. <i>Lecture Notes in Computer Science</i> , 2013 , 121-130	0.9	1
45	Finite Rank Series Modeling for Discrimination of Non-stationary Signals. <i>Lecture Notes in Computer Science</i> , 2012 , 691-698	0.9	1
44	A time-series prediction framework using sequential learning algorithms and dimensionality reduction within a sparsification approach. <i>Pattern Recognition Letters</i> , 2020 , 129, 287-292	4.7	1
43	Adaptive classification using incremental learning for seismic-volcanic signals with concept drift. <i>Journal of Volcanology and Geothermal Research</i> , 2021 , 413, 107211	2.8	1
42	Spatial interpretability of time-frequency relevance optimized in motor imagery discrimination using Deep&Wide networks. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102626	4.9	1
41	Assessment of Source Connectivity for Emotional States Discrimination. <i>Lecture Notes in Computer Science</i> , 2018 , 63-73	0.9	1
40	Improving the prediction of sub-cellular locations of proteins with a particle swarm optimization-based boosting strategy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference 2012</i> , 2012, 6313-6	0.9	0
39	Sleep apnoea detection in children using PPG envelope-based dynamic features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 1483-6	0.9	0
38	Iterative joint dynamic brain mapping and neural activity modeling from electroencephalographic signals. <i>IFMBE Proceedings</i> , 2017 , 433-436	0.2	
37	Relevant Kinematic Feature Selection to Support Human Action Recognition in MoCap Data. <i>Lecture Notes in Computer Science</i> , 2017 , 501-509	0.9	
36	Forward Modelling Complexity Influence in EEG Source Localization Using Real EEG Data. <i>Lecture Notes in Computer Science</i> , 2019 , 829-836	0.9	
35	Linear Projection Learned from Hybrid CKA for Enhancing Distance-Based Classifiers. <i>Lecture Notes in Computer Science</i> , 2019 , 100-108	0.9	
34	Spatial-Dependent Similarity Metric Supporting Multi-atlas MRI Segmentation. <i>Lecture Notes in Computer Science</i> , 2015 , 300-308	0.9	
33	Kernel-Based Feature Relevance Analysis for ECG Beat Classification. <i>Lecture Notes in Computer Science</i> , 2015 , 291-299	0.9	
32	Single-Channel Separation Between Stationary and Non-stationary Signals Using Relevant Information. <i>Lecture Notes in Computer Science</i> , 2015 , 452-459	0.9	
31	Assessment of the Relation Between Low-Frequency Features and Velum Opening by Using Real Articulatory Data. <i>Lecture Notes in Computer Science</i> , 2016 , 131-139	0.9	

30	Weighted Filtering for Neural Activity Reconstruction Under Time Varying Constraints. <i>Lecture Notes in Computer Science</i> , 2015 , 377-387	0.9
29	Kernel-based atlas image selection for brain tissue segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2895-8	0.9
28	Identification of brain networks using time-varying spatial constraints of neural activity reconstruction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 3789-92	0.9
27	Three-layer-isotropic skull conductivity representation in the EEG forward problem using spherical head models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 4904-7	0.9
26	Functional Protein Prediction Using HMM Based Feature Representation and Relevance Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 71-76	0.4
25	Training using short-time features for OSA discrimination. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 9-12	0.9
24	Contact potentials via wavelet transform for prediction of subcellular localizations in gram negative bacterial proteins. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 643-6	0.9
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