

Sabine Van Huffel

List of Publications by Year in descending order

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389
papers

15,000
citations

26630

56
h-index

33894

99
g-index

403
all docs

403
docs citations

403
times ranked

14356
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of a group concept mapping approach to define learning outcomes for an interdisciplinary module in medicine. <i>Perspectives on Medical Education</i> , 2022, 3, 245-253.	3.5	11
2	A Deep Shared Multi-Scale Inception Network Enables Accurate Neonatal Quiet Sleep Detection With Limited EEG Channels. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 1023-1033.	6.3	13
3	Sleep Monitoring in Adults Using Wearables and Unobtrusive Technology. , 2022, , 181-228.		1
4	Early soft and flexible fusion of electroencephalography and functional magnetic resonance imaging via double coupled matrix tensor factorization for multisubject group analysis. <i>Human Brain Mapping</i> , 2022, 43, 1231-1255.	3.6	11
5	Functional brain maturation and sleep organisation in neonates with congenital heart disease. <i>European Journal of Paediatric Neurology</i> , 2022, 36, 115-122.	1.6	3
6	Data Augmentation and Transfer Learning for Data Quality Assessment in Respiratory Monitoring. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 806761.	4.1	5
7	Artificial Intelligence Based Patient-Specific Preoperative Planning Algorithm for Total Knee Arthroplasty. <i>Frontiers in Robotics and AI</i> , 2022, 9, 840282.	3.2	16
8	A machine learning algorithm for electrocardiographic fQRS quantification validated on multi-center data. <i>Scientific Reports</i> , 2022, 12, 6783.	3.3	3
9	Kernelized Sparse Bayesian Matrix Factorization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 391-404.	11.3	6
10	Model-Based Evaluation of Methods for Respiratory Sinus Arrhythmia Estimation. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1882-1893.	4.2	12
11	Linear and Non-linear Quantification of the Respiratory Sinus Arrhythmia Using Support Vector Machines. <i>Frontiers in Physiology</i> , 2021, 12, 623781.	2.8	4
12	Classification with a Deferral Option and Low-Trust Filtering for Automated Seizure Detection. <i>Sensors</i> , 2021, 21, 1046.	3.8	11
13	Capacitively-coupled ECG and respiration for the unobtrusive detection of sleep apnea. <i>Physiological Measurement</i> , 2021, 42, 024001.	2.1	7
14	Gastric accumulation of enteral nutrition reduces pressure changes induced by phasic contractility in an isovolumetric intragastric balloon. <i>Neurogastroenterology and Motility</i> , 2021, 33, e14088.	3.0	0
15	Augmenting interictal mapping with neurovascular coupling biomarkers by structured factorization of epileptic EEG and fMRI data. <i>NeuroImage</i> , 2021, 228, 117652.	4.2	14
16	Utility metric for unsupervised feature selection. <i>PeerJ Computer Science</i> , 2021, 7, e477.	4.5	2
17	Artefact Detection in Impedance Pneumography Signals: A Machine Learning Approach. <i>Sensors</i> , 2021, 21, 2613.	3.8	9
18	Sleep Diagnostics for Home Monitoring of Sleep Apnea Patients. <i>Frontiers in Digital Health</i> , 2021, 3, 685766.	2.8	9

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19	Results of quantitative EEG analysis are associated with autism spectrum disorder and development abnormalities in infants with tuberous sclerosis complex. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102658.	5.7	7
20	Automatic quality assessment of capacitively-coupled bioimpedance signals for respiratory activity monitoring. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102775.	5.7	2
21	Benchmarking Transfer Entropy Methods for the Study of Linear and Nonlinear Cardio-Respiratory Interactions. <i>Entropy</i> , 2021, 23, 939.	2.2	8
22	The power of ECG in multimodal patient-specific seizure monitoring: Added value to an EEG-based detector using limited channels. <i>Epilepsia</i> , 2021, 62, 2333-2343.	5.1	27
23	Capacitively-Coupled ECG and Respiration for Sleep-Wake Prediction and Risk Detection in Sleep Apnea Patients. <i>Sensors</i> , 2021, 21, 6409.	3.8	3
24	Technical aspects of cardiorespiratory estimation using subspace projections and cross entropy. <i>Physiological Measurement</i> , 2021, 42, 115008.	2.1	2
25	icobrain ms 5.1: Combining unsupervised and supervised approaches for improving the detection of multiple sclerosis lesions. <i>NeuroImage: Clinical</i> , 2021, 31, 102707.	2.7	19
26	Supervised SVM Transfer Learning for Modality-Specific Artefact Detection in ECG. <i>Sensors</i> , 2021, 21, 662.	3.8	2
27	The effect of early procedural pain in preterm infants on the maturation of electroencephalogram and heart rate variability. <i>Pain</i> , 2021, 162, 1556-1566.	4.2	10
28	Neurocardiovascular coupling in congenital diaphragmatic hernia patients undergoing different types of surgical treatment. <i>European Journal of Anaesthesiology</i> , 2021, Publish Ahead of Print, .	1.7	1
29	Automatic Artifact Removal of Resting-State fMRI with Deep Neural Networks. , 2021, , .		0
30	Controlled Breathing Effect on Respiration Quality Assessment Using Machine Learning Approaches. , 2021, , .		2
31	Cerebral Oxygenation and Activity During Surgical Repair of Neonates With Congenital Diaphragmatic Hernia: A Center Comparison Analysis. <i>Frontiers in Pediatrics</i> , 2021, 9, 798952.	1.9	3
32	Codeine delays gastric emptying through inhibition of gastric motility as assessed with a novel diagnostic intragastric balloon catheter. <i>Neurogastroenterology and Motility</i> , 2020, 32, e13733.	3.0	13
33	Constrained Tensor Decomposition for Longitudinal Analysis of Diffusion Imaging Data. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1137-1148.	6.3	3
34	A convolutional neural network outperforming state-of-the-art sleep staging algorithms for both preterm and term infants. <i>Journal of Neural Engineering</i> , 2020, 17, 016028.	3.5	41
35	Enuretic children have a higher variability in REM sleep when comparing their sleep parameters with nonenuretic control children using a wearable sleep tracker at home. <i>Neurourology and Urodynamics</i> , 2020, 39, 367-375.	1.5	11
36	A Bradycardia-Based Stress Calculator for the Neonatal Intensive Care Unit: A Multisystem Approach. <i>Frontiers in Physiology</i> , 2020, 11, 741.	2.8	7

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37	Non-invasive characterization of amyotrophic lateral sclerosis in a hTDP-43A315T mouse model: A PET-MR study. <i>NeuroImage: Clinical</i> , 2020, 27, 102327.	2.7	9
38	Short-Term Exercise Progression of Cardiovascular Patients throughout Cardiac Rehabilitation: An Observational Study. <i>Journal of Clinical Medicine</i> , 2020, 9, 3160.	2.4	2
39	Prediction of Neurodevelopment in Infants With Tuberous Sclerosis Complex Using Early EEG Characteristics. <i>Frontiers in Neurology</i> , 2020, 11, 582891.	2.4	19
40	Personalizing Heart Rate-Based Seizure Detection Using Supervised SVM Transfer Learning. <i>Frontiers in Neurology</i> , 2020, 11, 145.	2.4	27
41	Wearable Monitoring and Interpretable Machine Learning Can Objectively Track Progression in Patients during Cardiac Rehabilitation. <i>Sensors</i> , 2020, 20, 3601.	3.8	22
42	Bayesian Nonnegative Matrix Factorization With Dirichlet Process Mixtures. <i>IEEE Transactions on Signal Processing</i> , 2020, 68, 3860-3870.	5.3	9
43	Multilevel Interval Coded Scoring to Assess the Cardiovascular Status of Sleep Apnea Patients Using Oxygen Saturation Markers. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 2839-2848.	4.2	9
44	Artificial Neural Network-Based Automatic Detection of Food Intake for Neuromodulation in Treating Obesity and Diabetes. <i>Obesity Surgery</i> , 2020, 30, 2547-2557.	2.1	7
45	Assessment of dynamic cerebral autoregulation in humans: Is reproducibility dependent on blood pressure variability?. <i>PLoS ONE</i> , 2020, 15, e0227651.	2.5	17
46	Visual seizure annotation and automated seizure detection using behind-the-ear electroencephalographic channels. <i>Epilepsia</i> , 2020, 61, 766-775.	5.1	48
47	Maturation of the Autonomic Nervous System in Premature Infants: Estimating Development Based on Heart-Rate Variability Analysis. <i>Frontiers in Physiology</i> , 2020, 11, 581250.	2.8	7
48	Nonlinear Transfer Entropy to Assess the Neurovascular Coupling in Premature Neonates. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1232, 11-17.	1.6	7
49	Using Biosensors and Digital Biomarkers to Assess Response to Cardiac Rehabilitation: Observational Study. <i>Journal of Medical Internet Research</i> , 2020, 22, e17326.	4.3	13
50	The Power of Tensor-Based Approaches in Cardiac Applications. <i>Series in Bioengineering</i> , 2020, , 291-323.	0.6	2
51	Title is missing!. , 2020, 15, e0227651.		0
52	Title is missing!. , 2020, 15, e0227651.		0
53	Title is missing!. , 2020, 15, e0227651.		0
54	Title is missing!. , 2020, 15, e0227651.		0

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55	Neonatal Seizure Detection Using Deep Convolutional Neural Networks. International Journal of Neural Systems, 2019, 29, 1850011.	5.2	157
56	Semi-automated EEG Enhancement Improves Localization of Ictal Onset Zone With EEG-Correlated fMRI. Frontiers in Neurology, 2019, 10, 805.	2.4	5
57	Dynamic Cerebral Autoregulation Reproducibility Is Affected by Physiological Variability. Frontiers in Physiology, 2019, 10, 865.	2.8	29
58	Sensorimotor cortex neurometabolite levels as correlate of motor performance in normal aging: evidence from a 1H-MRS study. NeuroImage, 2019, 202, 116050.	4.2	22
59	Nonconvulsive epileptic seizure monitoring with incremental learning. Computers in Biology and Medicine, 2019, 114, 103434.	7.0	5
60	Artefact detection and quality assessment of ambulatory ECG signals. Computer Methods and Programs in Biomedicine, 2019, 182, 105050.	4.7	38
61	Decomposition of a Multiscale Entropy Tensor for Sleep Stage Identification in Preterm Infants. Entropy, 2019, 21, 936.	2.2	8
62	Unsupervised respiratory signal extraction from ungated cardiac magnetic resonance imaging at rest and during exercise. Physics in Medicine and Biology, 2019, 64, 065001.	3.0	7
63	Functional form estimation using oblique projection matrices for LS-SVM regression models. PLoS ONE, 2019, 14, e0217967.	2.5	0
64	Autonomic Dysfunction Increases Cardiovascular Risk in the Presence of Sleep Apnea. Frontiers in Physiology, 2019, 10, 620.	2.8	13
65	Evaluation of a Commercial Ballistocardiography Sensor for Sleep Apnea Screening and Sleep Monitoring. Sensors, 2019, 19, 2133.	3.8	29
66	Motor cortex metabolite alterations in amyotrophic lateral sclerosis assessed in vivo using edited and non-edited magnetic resonance spectroscopy. Brain Research, 2019, 1718, 22-31.	2.2	24
67	Image Denoising Based on Nonlocal Bayesian Singular Value Thresholding and Stein's Unbiased Risk Estimator. IEEE Transactions on Image Processing, 2019, 28, 4899-4911.	9.8	11
68	Measurement of Neurovascular Coupling in Neonates. Frontiers in Physiology, 2019, 10, 65.	2.8	61
69	Evaluation of Methods to Characterize the Change of the Respiratory Sinus Arrhythmia with Age in Sleep Apnea Patients. , 2019, 2019, 1588-1591.		2
70	Tensor-based Blind fMRI Source Separation Without the Gaussian Noise Assumption – A $\hat{\epsilon}^2$ -Divergence Approach. , 2019, , .		2
71	A Machine-Learning Approach for Detection and Quantification of QRS Fragmentation. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1980-1989.	6.3	36
72	Cardiorespiratory coupling in preterm infants. Journal of Applied Physiology, 2019, 126, 202-213.	2.5	19

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73	Ictal autonomic changes as a tool for seizure detection: a systematic review. <i>Clinical Autonomic Research</i> , 2019, 29, 161-181.	2.5	37
74	Tensor-Based Method for Residual Water Suppression in ^1H Magnetic Resonance Spectroscopic Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 584-594.	4.2	5
75	Unconstrained Estimation of HRV Indices After Removing Respiratory Influences From Heart Rate. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 2386-2397.	6.3	34
76	Automatic Screening of Sleep Apnea Patients Based on the SpO_2 Signal. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 607-617.	6.3	55
77	Nonconvulsive Epileptic Seizure Detection in Scalp EEG Using Multiway Data Analysis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 660-671.	6.3	42
78	Automated EEG background analysis to identify neonates with hypoxic-ischemic encephalopathy treated with hypothermia at risk for adverse outcome: A pilot study. <i>Pediatrics and Neonatology</i> , 2019, 60, 50-58.	0.9	20
79	R-DECO: an open-source Matlab based graphical user interface for the detection and correction of R-peaks. <i>PeerJ Computer Science</i> , 2019, 5, e226.	4.5	29
80	Tamoxifen Metabolism and Efficacy in Breast Cancer: A Prospective Multicenter Trial. <i>Clinical Cancer Research</i> , 2018, 24, 2312-2318.	7.0	51
81	T-wave end detection using neural networks and Support Vector Machines. <i>Computers in Biology and Medicine</i> , 2018, 96, 116-127.	7.0	19
82	Adaptive heart rate-based epileptic seizure detection using real-time user feedback. <i>Physiological Measurement</i> , 2018, 39, 014005.	2.1	18
83	Inter- and intra-observer variability of visual fragmented QRS scoring in ischemic and non-ischemic cardiomyopathy. <i>Journal of Electrocardiology</i> , 2018, 51, 549-554.	0.9	15
84	Automated EEG sleep staging in the term-age baby using a generative modelling approach. <i>Journal of Neural Engineering</i> , 2018, 15, 036004.	3.5	51
85	Does ignoring clustering in multicenter data influence the performance of prediction models? A simulation study. <i>Statistical Methods in Medical Research</i> , 2018, 27, 1723-1736.	1.5	26
86	Weighted Performance Metrics for Automatic Neonatal Seizure Detection Using Multiscored EEG Data. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 1114-1123.	6.3	13
87	Tensor-based ECG Signal Processing Applied to Atrial Fibrillation Detection. , 2018, , .		4
88	Temporal Beat-to-Beat Variability of Repolarization Changes Predict Non-Sustained Ventricular Tachycardia in Ischemic Heart Disease Patients. , 2018, , .		0
89	SINGLE-CHANNEL EEG CLASSIFICATION BY MULTI-CHANNEL TENSOR SUBSPACE LEARNING AND REGRESSION. , 2018, , .		8
90	Non-invasive assessment of disease progression and neuroprotective effects of dietary coconut oil supplementation in the ALS SOD1G93A mouse model: A ^1H -magnetic resonance spectroscopic study. <i>NeuroImage: Clinical</i> , 2018, 20, 1092-1105.	2.7	14

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91	Using Graph Theory to Assess the Interaction between Cerebral Function, Brain Hemodynamics, and Systemic Variables in Premature Infants. <i>Complexity</i> , 2018, 2018, 1-15.	1.6	11
92	Reproducibility of dynamic cerebral autoregulation parameters: a multi-centre, multi-method study. <i>Physiological Measurement</i> , 2018, 39, 125002.	2.1	28
93	Cerebral autoregulation and activity after propofol for endotracheal intubation in preterm neonates. <i>Pediatric Research</i> , 2018, 84, 719-725.	2.3	19
94	Adaptive nocturnal seizure detection using heart rate and low-complexity novelty detection. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2018, 59, 48-53.	2.0	20
95	Measuring Near-Infrared Spectroscopy Derived Cerebral Autoregulation in Neonates: From Research Tool Toward Bedside Multimodal Monitoring. <i>Frontiers in Pediatrics</i> , 2018, 6, 117.	1.9	36
96	Recognition of Physical Activities from a Single Arm-Worn Accelerometer: A Multiway Approach. <i>Informatics</i> , 2018, 5, 20.	3.9	4
97	Comparison between Scalp EEG and Behind-the-Ear EEG for Development of a Wearable Seizure Detection System for Patients with Focal Epilepsy. <i>Sensors</i> , 2018, 18, 29.	3.8	78
98	Evaluation of a Multichannel Non-Contact ECG System and Signal Quality Algorithms for Sleep Apnea Detection and Monitoring. <i>Sensors</i> , 2018, 18, 577.	3.8	45
99	Comparison and combination of electrocardiogram, electromyogram and accelerometry for tonic-clonic seizure detection in children. , 2018, , .		5
100	Quiet sleep detection in preterm infants using deep convolutional neural networks. <i>Journal of Neural Engineering</i> , 2018, 15, 066006.	3.5	47
101	Interval Coded Scoring: a toolbox for interpretable scoring systems. <i>PeerJ Computer Science</i> , 2018, 4, e150.	4.5	9
102	Feature selection methods for accelerometry-based seizure detection in children. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 151-165.	2.8	15
103	Inappropriate ICD shocks do not induce pro-arrhythmic electrocardiographic changes in men. <i>Scandinavian Cardiovascular Journal</i> , 2017, 51, 47-52.	1.2	0
104	Online Automated Seizure Detection in Temporal Lobe Epilepsy Patients Using Single-lead ECG. <i>International Journal of Neural Systems</i> , 2017, 27, 1750022.	5.2	42
105	Sleep Apnea Hypopnea Syndrome classification in SpO ₂ signals using wavelet decomposition and phase space reconstruction. , 2017, , .		13
106	An advanced MRI and MRSI data fusion scheme for enhancing unsupervised brain tumor differentiation. <i>Computers in Biology and Medicine</i> , 2017, 81, 121-129.	7.0	20
107	Automatic detection of T wave alternans using tensor decompositions in multilead ECG signals. <i>Physiological Measurement</i> , 2017, 38, 1513-1528.	2.1	7
108	An Automated Quiet Sleep Detection Approach in Preterm Infants as a Gateway to Assess Brain Maturation. <i>International Journal of Neural Systems</i> , 2017, 27, 1750023.	5.2	55

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109	Interrater agreement in visual scoring of neonatal seizures based on majority voting on a web-based system: The Neoguard EEG database. <i>Clinical Neurophysiology</i> , 2017, 128, 1737-1745.	1.5	10
110	Review of sleep-EEG in preterm and term neonates. <i>Early Human Development</i> , 2017, 113, 87-103.	1.8	99
111	Complexity and Nonlinearities in Cardiorespiratory Signals in Sleep and Sleep Apnea. , 2017, , 503-537.		6
112	A tensor-based mutation operator for Neuroevolution of Augmenting Topologies (NEAT). , 2017, , .		2
113	Semi-automated brain tumor segmentation on multi-parametric MRI using regularized non-negative matrix factorization. <i>BMC Medical Imaging</i> , 2017, 17, 29.	2.7	34
114	Tensor decompositions and data fusion in epileptic electroencephalography and functional magnetic resonance imaging data. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2017, 7, e1197.	6.8	37
115	Multiparametric Non-Negative Matrix Factorization for Longitudinal Variations Detection in White-Matter Fiber Bundles. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017, 21, 1393-1402.	6.3	5
116	Irregular heartbeat classification using Kronecker Product Equations. , 2017, 2017, 438-441.		9
117	Nonconvulsive epileptic seizures detection using multiway data analysis. , 2017, , .		3
118	Flexible fusion of electroencephalography and functional magnetic resonance imaging: Revealing neural-hemodynamic coupling through structured matrix-tensor factorization. , 2017, , .		16
119	Monitoring Effective Connectivity in the Preterm Brain: A Graph Approach to Study Maturation. <i>Complexity</i> , 2017, 2017, 1-13.	1.6	8
120	Automated Epileptic Seizure Detection Based on Wearable ECG and PPG in a Hospital Environment. <i>Sensors</i> , 2017, 17, 2338.	3.8	133
121	Complexity Analysis of Neonatal EEG Using Multiscale Entropy: Applications in Brain Maturation and Sleep Stage Classification. <i>Entropy</i> , 2017, 19, 516.	2.2	52
122	Patch-Based Super-Resolution of MR Spectroscopic Images: Application to Multiple Sclerosis. <i>Frontiers in Neuroscience</i> , 2017, 11, 13.	2.8	27
123	Machine Learning Approach for Classifying Multiple Sclerosis Courses by Combining Clinical Data with Lesion Loads and Magnetic Resonance Metabolic Features. <i>Frontiers in Neuroscience</i> , 2017, 11, 398.	2.8	48
124	Interval Coded Scoring extensions for larger problems. , 2017, , .		3
125	Relation Between EEG Activity and Brain Oxygenation in Preterm Neonates. <i>Advances in Experimental Medicine and Biology</i> , 2017, 977, 133-139.	1.6	5
126	The successive projection algorithm as an initialization method for brain tumor segmentation using non-negative matrix factorization. <i>PLoS ONE</i> , 2017, 12, e0180268.	2.5	11

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127	Two Time Point MS Lesion Segmentation in Brain MRI: An Expectation-Maximization Framework. <i>Frontiers in Neuroscience</i> , 2016, 10, 576.	2.8	32
128	Accelerometry-Based Activity Recognition and Assessment in Rheumatic and Musculoskeletal Diseases. <i>Sensors</i> , 2016, 16, 2151.	3.8	9
129	Explaining Support Vector Machines: A Color Based Nomogram. <i>PLoS ONE</i> , 2016, 11, e0164568.	2.5	30
130	Decomposition of Near-Infrared Spectroscopy Signals Using Oblique Subspace Projections: Applications in Brain Hemodynamic Monitoring. <i>Frontiers in Physiology</i> , 2016, 7, 515.	2.8	11
131	Pattern discovery in critical alarms originating from neonates under intensive care. <i>Physiological Measurement</i> , 2016, 37, 564-579.	2.1	26
132	Hierarchical non-negative matrix factorization applied to three-dimensional 3T MRSI data for automatic tissue characterization of the prostate. <i>NMR in Biomedicine</i> , 2016, 29, 751-758.	2.8	12
133	Influence of food intake on the QT and QT/RR relation. <i>Journal of Electrocardiology</i> , 2016, 49, 720-727.	0.9	4
134	Longitudinal Neuroimaging Analysis Using Non-Negative Matrix Factorization. , 2016, , .		0
135	Fusion of electroencephalography and functional magnetic resonance imaging to explore epileptic network activity. , 2016, , .		14
136	Early development of synchrony in cortical activations in the human. <i>Neuroscience</i> , 2016, 322, 298-307.	2.3	32
137	Long-term accelerometry-triggered video monitoring and detection of tonic-clonic and clonic seizures in a home environment: Pilot study. <i>Epilepsy & Behavior Case Reports</i> , 2016, 5, 66-71.	1.5	18
138	The suppression curve as a quantitative approach for measuring brain maturation in preterm infants. <i>Clinical Neurophysiology</i> , 2016, 127, 2760-2765.	1.5	15
139	Field Potential Oscillations in the Bed Nucleus of the Stria Terminalis Correlate with Compulsion in a Rat Model of Obsessive-Compulsive Disorder. <i>Journal of Neuroscience</i> , 2016, 36, 10050-10059.	3.6	12
140	Comparison of unsupervised classification methods for brain tumor segmentation using multi-parametric MRI. <i>NeuroImage: Clinical</i> , 2016, 12, 753-764.	2.7	64
141	Non-EEG seizure detection systems and potential SUDEP prevention: State of the art. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2016, 41, 141-153.	2.0	91
142	Changes in Oxygenation Levels Precede Changes in Amplitude of the EEG in Premature Infants. <i>Advances in Experimental Medicine and Biology</i> , 2016, 923, 143-149.	1.6	8
143	Activity recognition for physical therapy. , 2016, , .		1
144	Mobile EEG on the bike: disentangling attentional and physical contributions to auditory attention tasks. <i>Journal of Neural Engineering</i> , 2016, 13, 046017.	3.5	89

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145	Instrumented BASFI (iBASFI) Shows Promising Reliability and Validity in the Assessment of Activity Limitations in Axial Spondyloarthritis. <i>Journal of Rheumatology</i> , 2016, 43, 1532-1540.	2.0	11
146	Improved multi-stage neonatal seizure detection using a heuristic classifier and a data-driven post-processor. <i>Clinical Neurophysiology</i> , 2016, 127, 3014-3024.	1.5	29
147	A New Framework for the Assessment of Cerebral Hemodynamics Regulation in Neonates Using NIRS. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 501-509.	1.6	14
148	Differences in Contraction-Induced Hemodynamics and Surface EMG in Duchenne Muscular Dystrophy. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 71-77.	1.6	1
149	Tensor-based classification of an auditory mobile BCI without a subject-specific calibration phase. <i>Journal of Neural Engineering</i> , 2016, 13, 026005.	3.5	15
150	Reference values of regional cerebral oxygen saturation during the first 3 days of life in preterm neonates. <i>Pediatric Research</i> , 2016, 79, 55-64.	2.3	158
151	Improving Reliability of Monitoring Background EEG Dynamics in Asphyxiated Infants. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 973-983.	4.2	14
152	Automated Detection of Tonic"Clonic Seizures Using 3-D Accelerometry and Surface Electromyography in Pediatric Patients. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 1333-1341.	6.3	62
153	Classifying Glioblastoma Multiforme Follow-Up Progressive vs. Responsive Forms Using Multi-Parametric MRI Features. <i>Frontiers in Neuroscience</i> , 2016, 10, 615.	2.8	22
154	Interval Coded Scoring Index with Interaction Effects - A Sensitivity Study. , 2016, , .		1
155	White Matter Fiber-Bundle Analysis Using Non-negative Tensor Factorization. <i>Lecture Notes in Computer Science</i> , 2016, , 650-657.	1.3	0
156	One-bit Matrix Compressed Sensing Algorithm for Sparse Matrix Recovery. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2016, E99.A, 647-650.	0.3	1
157	ECG-derived respiration for ambulatory monitoring. , 2015, , .		2
158	Hierarchical non-negative matrix factorization to characterize brain tumor heterogeneity using multi-parametric MRI. <i>NMR in Biomedicine</i> , 2015, 28, 1599-1624.	2.8	29
159	Objective differentiation of neonatal EEG background grades using detrended fluctuation analysis. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 189.	2.0	29
160	Cardiorespiratory Information Dynamics during Mental Arithmetic and Sustained Attention. <i>PLoS ONE</i> , 2015, 10, e0129112.	2.5	34
161	Tumour Relapse Prediction Using Multiparametric MR Data Recorded during Follow-Up of GBM Patients. <i>BioMed Research International</i> , 2015, 2015, 1-13.	1.9	6
162	Cardiovascular autonomic adaptation in lunar and martian gravity during parabolic flight. <i>European Journal of Applied Physiology</i> , 2015, 115, 1205-1218.	2.5	16

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163	Tensor-based detection of T wave alternans using ECG. , 2015, 2015, 6991-4.		3
164	Detection of irregular heartbeats using tensors. , 2015, , .		5
165	Neural network approach for T-wave end detection: A comparison of architectures. , 2015, , .		2
166	Online detection of tonic-clonic seizures in pediatric patients using ECG and low-complexity incremental novelty detection. , 2015, 2015, 5597-600.		6
167	Interictal cardiorespiratory variability in temporal lobe and absence epilepsy in childhood. Physiological Measurement, 2015, 36, 845-856.	2.1	19
168	A Novel Algorithm for the Automatic Detection of Sleep Apnea From Single-Lead ECG. IEEE Transactions on Biomedical Engineering, 2015, 62, 2269-2278.	4.2	246
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170	A prospective fMRI-based technique for localising the epileptogenic zone in presurgical evaluation of epilepsy. NeuroImage, 2015, 113, 329-339.	4.2	25
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