

Andriy Temko

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

3,010
citations

236925

25
h-index

254184

43
g-index

85
all docs

85
docs citations

85
times ranked

3261
citing authors

#	ARTICLE	IF	CITATIONS
1	Bifidobacterium longum 1714 as a translational psychobiotic: modulation of stress, electrophysiology and neurocognition in healthy volunteers. <i>Translational Psychiatry</i> , 2016, 6, e939-e939.	4.8	350
2	EEG-based neonatal seizure detection with Support Vector Machines. <i>Clinical Neurophysiology</i> , 2011, 122, 464-473.	1.5	270
3	Lost in translation? The potential psychobiotic <i>Lactobacillus rhamnosus</i> (JB-1) fails to modulate stress or cognitive performance in healthy male subjects. <i>Brain, Behavior, and Immunity</i> , 2017, 61, 50-59.	4.1	254
4	Accurate Heart Rate Monitoring During Physical Exercises Using PPG. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2016-2024.	4.2	182
5	Gut microbiome, big data and machine learning to promote precision medicine for cancer. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2020, 17, 635-648.	17.8	172
6	Colonic microbiota is associated with inflammation and host epigenomic alterations in inflammatory bowel disease. <i>Nature Communications</i> , 2020, 11, 1512.	12.8	167
7	Epilepsyecosystem.org: crowd-sourcing reproducible seizure prediction with long-term human intracranial EEG. <i>Brain</i> , 2018, 141, 2619-2630.	7.6	105
8	Performance assessment for EEG-based neonatal seizure detectors. <i>Clinical Neurophysiology</i> , 2011, 122, 474-482.	1.5	101
9	Classification of acoustic events using SVM-based clustering schemes. <i>Pattern Recognition</i> , 2006, 39, 682-694.	8.1	85
10	Neonatal seizure detection from raw multi-channel EEG using a fully convolutional architecture. <i>Neural Networks</i> , 2020, 123, 12-25.	5.9	85
11	Acoustic event detection in meeting-room environments. <i>Pattern Recognition Letters</i> , 2009, 30, 1281-1288.	4.2	71
12	ROBUST NEONATAL EEG SEIZURE DETECTION THROUGH ADAPTIVE BACKGROUND MODELING. <i>International Journal of Neural Systems</i> , 2013, 23, 1350018.	5.2	57
13	Validation of an automated seizure detection algorithm for term neonates. <i>Clinical Neurophysiology</i> , 2016, 127, 156-168.	1.5	55
14	Gaussian mixture models for classification of neonatal seizures using EEG. <i>Physiological Measurement</i> , 2010, 31, 1047-1064.	2.1	54
15	An Automated System for Grading EEG Abnormality in Term Neonates with Hypoxic-Ischaemic Encephalopathy. <i>Annals of Biomedical Engineering</i> , 2013, 41, 775-785.	2.5	53
16	EEG in the healthy term newborn within 12 hours of birth. <i>Clinical Neurophysiology</i> , 2009, 120, 1046-1053.	1.5	52
17	EEG Signal Description with Spectral-Envelope-Based Speech Recognition Features for Detection of Neonatal Seizures. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011, 15, 839-847.	3.2	44
18	Fuzzy integral based information fusion for classification of highly confusable non-speech sounds. <i>Pattern Recognition</i> , 2008, 41, 1814-1823.	8.1	43

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19	Heart rate based automatic seizure detection in the newborn. Medical Engineering and Physics, 2010, 32, 829-839.	1.7	42
20	Clinical implementation of a neonatal seizure detection algorithm. Decision Support Systems, 2015, 70, 86-96.	5.9	42
21	Grading hypoxic-ischemic encephalopathy severity in neonatal EEG using GMM supervectors and the support vector machine. Clinical Neurophysiology, 2016, 127, 297-309.	1.5	39
22	Assessing instantaneous energy in the EEG: A non-negative, frequency-weighted energy operator. , 2014, 2014, 3288-91.		36
23	Estimation of heart rate from photoplethysmography during physical exercise using Wiener filtering and the phase vocoder. , 2015, 2015, 1500-3.		36
24	Instantaneous Measure of EEG Channel Importance for Improved Patient-Adaptive Neonatal Seizure Detection. IEEE Transactions on Biomedical Engineering, 2012, 59, 717-727.	4.2	34
25	Analysis of a Low-Cost EEG Monitoring System and Dry Electrodes toward Clinical Use in the Neonatal ICU. Sensors, 2019, 19, 2637.	3.8	32
26	An SVM-based system and its performance for detection of seizures in neonates. , 2009, 2009, 2643-6.		30
27	Discriminative and Generative Classification Techniques Applied to Automated Neonatal Seizure Detection. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 297-304.	6.3	30
28	Deep Learning for EEG Seizure Detection in Preterm Infants. International Journal of Neural Systems, 2021, 31, 2150008.	5.2	29
29	Multimodal predictor of neurodevelopmental outcome in newborns with hypoxic-ischaemic encephalopathy. Computers in Biology and Medicine, 2015, 63, 169-177.	7.0	26
30	Neonatal seizure detection using convolutional neural networks. , 2017, , .		26
31	Detecting Neonatal Seizures With Computer Algorithms. Journal of Clinical Neurophysiology, 2016, 33, 394-402.	1.7	26
32	Exploring temporal information in neonatal seizures using a dynamic time warping based SVM kernel. Computers in Biology and Medicine, 2017, 82, 100-110.	7.0	23
33	Classification of Meeting-Room Acoustic Events with Support Vector Machines and Variable-Feature-Set Clustering. , 0, , .		20
34	Age-independent seizure detection. , 2009, 2009, 6612-5.		20
35	In-depth performance analysis of an EEG based neonatal seizure detection algorithm. Clinical Neurophysiology, 2016, 127, 2246-2256.	1.5	19
36	Comparison of Sequence Discriminant Support Vector Machines for Acoustic Event Classification. , 0, , .		18

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37	Inclusion of temporal priors for automated neonatal EEG classification. Journal of Neural Engineering, 2012, 9, 046002.	3.5	17
38	Enhanced SVM Training for Robust Speech Activity Detection. , 2007, , .		16
39	Speech recognition features for EEG signal description in detection of neonatal seizures. , 2010, 2010, 3281-4.		16
40	Detection of seizures in intracranial EEG: UPenn and Mayo Clinic's Seizure Detection Challenge. , 2015, 2015, 6582-5.		16
41	Ensembling crowdsourced seizure prediction algorithms using long-term human intracranial EEG. Epilepsia, 2020, 61, e7-e12.	5.1	15
42	Toward a Personalized Real-Time Diagnosis in Neonatal Seizure Detection. IEEE Journal of Translational Engineering in Health and Medicine, 2017, 5, 1-14.	3.7	14
43	A Framework for AI-Assisted Detection of Patent Ductus Arteriosus from Neonatal Phonocardiogram. Healthcare (Switzerland), 2021, 9, 169.	2.0	14
44	Investigating the Impact of CNN Depth on Neonatal Seizure Detection Performance. , 2018, 2018, 5862-5865.		13
45	A Gaussian mixture model based statistical classification system for neonatal seizure detection. , 2009, , .		12
46	Automated Detection of Perturbed Cardiac Physiology During Oral Food Allergen Challenge in Children. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1051-1057.	6.3	12
47	Comparison of electrode technologies for dry and portable EEG acquisition. , 2017, , .		11
48	Speaker Diarization for Conference Room: The UPC RT07s Evaluation System. Lecture Notes in Computer Science, 2007, , 543-553.	1.3	11
49	Portable neonatal EEG monitoring and sonification on an Android device. , 2017, 2017, 2018-2021.		9
50	Neonatal EEG Interpretation and Decision Support Framework for Mobile Platforms. , 2018, 2018, 4881-4884.		9
51	Prediction of short-term health outcomes in preterm neonates from heart-rate variability and blood pressure using boosted decision trees. Computer Methods and Programs in Biomedicine, 2019, 180, 104996.	4.7	9
52	Neonatal EEG audification for seizure detection. , 2014, 2014, 4451-4.		8
53	PPG-based heart rate estimation using Wiener filter, phase vocoder and Viterbi decoding. , 2017, , .		7
54	Coupling between mean blood pressure and EEG in preterm neonates is associated with reduced illness severity scores. PLoS ONE, 2018, 13, e0199587.	2.5	6

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55	A method for AI assisted human interpretation of neonatal EEG. Scientific Reports, 2022, 12, .	3.3	6
56	Advances in Automated Neonatal Seizure Detection. Studies in Computational Intelligence, 2011, , 93-113.	0.9	5
57	Predicting the neurodevelopmental outcome in newborns with hypoxic-ischaemic injury. , 2010, 2010, 1370-3.		4
58	Parallel artefact rejection for epileptiform activity detection in routine EEG. , 2011, 2011, 7953-6.		4
59	Online EEG channel weighting for detection of seizures in the neonate. , 2011, 2011, 1447-50.		4
60	An EEG analysis framework through AI and sonification on low power IoT edge devices. , 2021, 2021, 277-280.		4
61	Towards Deeper Neural Networks for Neonatal Seizure Detection. , 2021, 2021, 920-923.		4
62	Dynamic time warping based neonatal seizure detection system. , 2012, 2012, 4919-22.		3
63	Grading brain injury in neonatal EEG using SVM and supervector kernel. , 2014, , .		3
64	Assessment of quality of ECG for accurate estimation of Heart Rate Variability in newborns. , 2015, 2015, 5863-6.		3
65	On sound-based interpretation of neonatal EEG. , 2018, , .		3
66	Heart Rate Variability during Periods of Low Blood Pressure as a Predictor of Short-Term Outcome in Preterms. , 2018, 2018, 5614-5517.		3
67	Gaussian mixture models for site-specific wind turbine power curves. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2021, 235, 494-505.	1.4	3
68	A comparison of generative and discriminative approaches in automated neonatal seizure detection. , 2009, , .		2
69	SVM detection of epileptiform activity in routine EEG. , 2010, 2010, 6369-72.		2
70	Clinical Validation of a Neonatal Seizure Detection Algorithm. Pediatric Research, 2011, 70, 135-135.	2.3	2
71	Classification of hypoxic-ischemic encephalopathy using long term heart rate variability based features. , 2015, 2015, 2355-8.		2
72	Modelling interactions between blood pressure and brain activity in preterm neonates. , 2017, 2017, 3969-3972.		2

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73	Improving the Performance of Acoustic Event Classification by Selecting and Combining Information Sources Using the Fuzzy Integral. Lecture Notes in Computer Science, 2006, , 357-368.	1.3	2
74	Robust Speech Activity Detection in Interactive Smart-Room Environments. Lecture Notes in Computer Science, 2006, , 236-247.	1.3	2
75	On the effect of reduced sampling rate and bitwidth on seizure detection. , 2009, , .		1
76	EEG ‘diarization’ for the description of neonatal brain injuries. , 2014, , .		1
77	V2Hz: Music composition from wind turbine energy using a finite-state machine. , 2017, , .		1
78	System Level Framework for Assessing the Accuracy of Neonatal EEG Acquisition. , 2018, 2018, 4339-4342.		1
79	A Data-Driven Energy Based Estimator of EEG Channel Importance for Improved Patient-Adaptive Neonatal Seizure Detector. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13770-13775.	0.4	0
80	Temporal evolution of seizure burden for automated neonatal EEG classification. , 2012, 2012, 4915-8.		0
81	223 Clinical Utility of an Automated Neonatal Seizure Detection Algorithm. Archives of Disease in Childhood, 2012, 97, A64-A64.	1.9	0
82	Adaptive modelling of background EEG for robust detection of neonatal seizures. , 2012, , .		0
83	Real-time allergy detection. , 2013, , .		0
84	Modulation frequency analysis of seizures in neonatal EEG. , 2014, , .		0
85	Automatic detection of artifact in neonatal ECG. , 2015, , .		0