

Ronald M Aarts

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,576
citations

361296

20
h-index

330025

37
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48
all docs

48
docs citations

48
times ranked

1708
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensing and computing for smart healthcare. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2022, 14, 3-4.	0.8	1
2	Epileptic Seizure Detection by Cascading Isolation Forest-Based Anomaly Screening and EasyEnsemble. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 915-924.	2.7	28
3	A Two-Layer Ensemble Method for Detecting Epileptic Seizures Using a Self-Annotation Bracelet With Motor Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-13.	2.4	6
4	Video-based actigraphy is an effective contact-free method of assessing sleep in preterm infants. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2021, 110, 1815-1816.	0.7	4
5	Characterizing cardiorespiratory interaction in preterm infants across sleep states using visibility graph analysis. <i>Journal of Applied Physiology</i> , 2021, 130, 1015-1024.	1.2	6
6	Home-based Detection of Epileptic Seizures Using a Bracelet with Motor Sensors. , 2021, , .		2
7	Tracking and Estimation of Frequency, Amplitude, and Form Factor of a Harmonic Time Series [Lecture Notes]. <i>IEEE Signal Processing Magazine</i> , 2021, 38, 86-91.	4.6	0
8	A deep transfer learning approach for wearable sleep stage classification with photoplethysmography. <i>Npj Digital Medicine</i> , 2021, 4, 135.	5.7	52
9	Pitfalls in EEG Analysis in Patients With Nonconvulsive Status Epilepticus: A Preliminary Study. <i>Clinical EEG and Neuroscience</i> , 2021, , 155005942110504.	0.9	0
10	Deep learning approach for ECG-based automatic sleep state classification in preterm infants. <i>Biomedical Signal Processing and Control</i> , 2020, 56, 101663.	3.5	23
11	Detecting Atrial Fibrillation and Atrial Flutter in Daily Life Using Photoplethysmography Data. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1610-1618.	3.9	33
12	Atrial fibrillation monitoring with wrist-worn photoplethysmography-based wearables: State-of-the-art review. <i>Cardiovascular Digital Health Journal</i> , 2020, 1, 45-51.	0.5	15
13	False alarms reduction in non-convulsive status epilepticus detection via continuous EEG analysis. <i>Physiological Measurement</i> , 2020, 41, 055009.	1.2	7
14	Sleep stage classification from heart-rate variability using long short-term memory neural networks. <i>Scientific Reports</i> , 2019, 9, 14149.	1.6	107
15	Estimating blood pressure trends and the nocturnal dip from photoplethysmography. <i>Physiological Measurement</i> , 2019, 40, 025006.	1.2	53
16	Automated preterm infant sleep staging using capacitive electrocardiography. <i>Physiological Measurement</i> , 2019, 40, 055003.	1.2	10
17	Respiration Monitoring for Premature Neonates in NICU. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5246.	1.3	13
18	EEG-based seizure detection in patients with intellectual disability: Which EEG and clinical factors are important?. <i>Biomedical Signal Processing and Control</i> , 2019, 49, 404-418.	3.5	8

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19	A broadband method of quantifying phase synchronization for discriminating seizure EEG signals. <i>Biomedical Signal Processing and Control</i> , 2019, 52, 371-383.	3.5	15
20	Finger and forehead photoplethysmography-derived pulse-pressure variation and the benefits of baseline correction. <i>Journal of Clinical Monitoring and Computing</i> , 2019, 33, 65-75.	0.7	15
21	Lying Awake at Night: Cardiac Autonomic Activity in Relation to Sleep Onset and Maintenance. <i>Frontiers in Neuroscience</i> , 2019, 13, 1405.	1.4	11
22	A comparison of probabilistic classifiers for sleep stage classification. <i>Physiological Measurement</i> , 2018, 39, 055001.	1.2	31
23	Enhancement of the Comb Filtering Selectivity Using Iterative Moving Average for Periodic Waveform and Harmonic Elimination. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-14.	1.1	6
24	Unobtrusive sleep state measurements in preterm infants – A review. <i>Sleep Medicine Reviews</i> , 2017, 32, 109-122.	3.8	69
25	Reduction of Periodic Motion Artifacts in Photoplethysmography. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 196-207.	2.5	48
26	Validation of Photoplethysmography-Based Sleep Staging Compared With Polysomnography in Healthy Middle-Aged Adults. <i>Sleep</i> , 2017, 40, .	0.6	106
27	EEG analysis of seizure patterns using visibility graphs for detection of generalized seizures. <i>Journal of Neuroscience Methods</i> , 2017, 290, 85-94.	1.3	45
28	Unobtrusive assessment of neonatal sleep state based on heart rate variability retrieved from electrocardiography used for regular patient monitoring. <i>Early Human Development</i> , 2017, 113, 104-113.	0.8	15
29	Hybrid Optical Unobtrusive Blood Pressure Measurements. <i>Sensors</i> , 2017, 17, 1541.	2.1	15
30	Measures of cardiovascular autonomic activity in insomnia disorder: A systematic review. <i>PLoS ONE</i> , 2017, 12, e0186716.	1.1	34
31	Gradient Artefact Correction and Evaluation of the EEG Recorded Simultaneously with fMRI Data Using Optimised Moving-Average. <i>Journal of Medical Engineering</i> , 2016, 2016, 1-17.	1.1	9
32	Reduction of false arrhythmia alarms using signal selection and machine learning. <i>Physiological Measurement</i> , 2016, 37, 1204-1216.	1.2	46
33	A method to adapt thoracic impedance based on chest geometry and composition to assess congestion in heart failure patients. <i>Medical Engineering and Physics</i> , 2016, 38, 538-546.	0.8	8
34	Estimating actigraphy from motion artifacts in ECG and respiratory effort signals. <i>Physiological Measurement</i> , 2016, 37, 67-82.	1.2	11
35	Decreasing the false alarm rate of arrhythmias in intensive care using a machine learning approach. , 2015, , .		25
36	Effects of Between- and Within-Subject Variability on Autonomic Cardiorespiratory Activity during Sleep and Their Limitations on Sleep Staging: A Multilevel Analysis. <i>Computational Intelligence and Neuroscience</i> , 2015, 2015, 1-17.	1.1	12

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37	Using photoplethysmography in heart rate monitoring of patients with epilepsy. <i>Epilepsy and Behavior</i> , 2015, 45, 142-145.	0.9	34
38	Sleep stage classification with ECG and respiratory effort. <i>Physiological Measurement</i> , 2015, 36, 2027-2040.	1.2	143
39	Analyzing respiratory effort amplitude for automated sleep stage classification. <i>Biomedical Signal Processing and Control</i> , 2014, 14, 197-205.	3.5	66
40	Towards tailored physical activity health intervention: Predicting dropout participants. <i>Health and Technology</i> , 2014, 4, 273-287.	2.1	1
41	Spectral Boundary Adaptation on Heart Rate Variability for Sleep and Wake Classification. <i>International Journal on Artificial Intelligence Tools</i> , 2014, 23, 1460002.	0.7	31
42	A novel low-complexity post-processing algorithm for precise QRS localization. <i>SpringerPlus</i> , 2014, 3, 376.	1.2	26
43	Time-Frequency Analysis of Accelerometry Data for Detection of Myoclonic Seizures. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010, 14, 1197-1203.	3.6	70
44	The acoustics of snoring. <i>Sleep Medicine Reviews</i> , 2010, 14, 131-144.	3.8	203
45	Low-complexity tracking and estimation of frequency and amplitude of sinusoids. , 2004, 14, 372-378.		11
46	Approximation of the Struve function H_1 occurring in impedance calculations. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 2635-2637.	0.5	33