Sebastian Zaunseder

List of Publications by Year
in descending order

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70 papers	1,627 citations	430874 18 h-index	330143 37 g-index
70 all docs	70 docs citations	70 times ranked	1507 citing authors

#	Article	IF	Citations
1	Optimization of ECG Classification by Means of Feature Selection. IEEE Transactions on Biomedical Engineering, 2011, 58, 2168-2177.	4.2	249
2	An open-source framework for stress-testing non-invasive foetal ECG extraction algorithms. Physiological Measurement, 2016, 37, 627-648.	2.1	125
3	A practical guide to non-invasive foetal electrocardiogram extraction and analysis. Physiological Measurement, 2016, 37, R1-R35.	2.1	99
4	Predicting sepsis with a recurrent neural network using the MIMIC III database. Computers in Biology and Medicine, 2019, 113, 103395.	7.0	86
5	An ECG simulator for generating maternal-foetal activity mixtures on abdominal ECG recordings. Physiological Measurement, 2014, 35, 1537-1550.	2.1	82
6	Robust fetal ECG extraction and detection from abdominal leads. Physiological Measurement, 2014, 35, 1551-1567.	2.1	81
7	Aspect-Based Sentiment Analysis of Drug Reviews Applying Cross-Domain and Cross-Data Learning. , 2018, , .		81
8	Cardiovascular assessment by imaging photoplethysmography â€“ a review. Biomedizinische Technik, 2018, 63, 617-634.	0.8	78
9	Monitoring fetal maturationâ€”objectives, techniques and indices of autonomic function. Physiological Measurement, 2017, 38, R61-R88.	2.1	45
10	Two-Dimensional Warping for One-Dimensional Signalsâ€”Conceptual Framework and Application to ECG Processing. IEEE Transactions on Signal Processing, 2014, 62, 5577-5588.	5.3	44
11	Non-invasive Fetal ECG Signal Quality Assessment for Multichannel Heart Rate Estimation. IEEE Transactions on Biomedical Engineering, 2017, 64, 2793-2802.	4.2	44
12	Remote health diagnosis and monitoring in the time of COVID-19. Physiological Measurement, 2020, 41, 10TR01.	2.1	44
13	Local Group Invariance for Heart Rate Estimation from Face Videos in the Wild. , 2018, , .		42
14	ROI Selection for Remote Photoplethysmography. Informatik Aktuell, 2013, , 99-103.	0.6	40
15	Therapy Decision Support Based on Recommender System Methods. Journal of Healthcare Engineering, 2017, 2017, 1-11.	1.9	34
16	Camera-based photoplethysmography in critical care patients. Clinical Hemorheology and Microcirculation, 2016, 64, 77-90.	1.7	33
17	Camera-based photoplethysmography in an intraoperative setting. BioMedical Engineering OnLine, 2018, 17, 33.	2.7	25
18	Assessment of blind source separation techniques for video-based cardiac pulse extraction. Journal of Biomedical Optics, 2017, 22, 035002.	2.6	24

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19	The value of polarization in camera-based photoplethysmography. Biomedical Optics Express, 2017, 8, 2822.	2.9	21
20	Effects of awareness and nociception on heart rate variability during general anaesthesia. Physiological Measurement, 2012, 33, 207-217.	2.1	20
21	The effect of body posture on cognitive performance: a question of sleep quality. Frontiers in Human Neuroscience, 2014, 8, 171.	2.0	20
22	Entropy Analysis of RR and QT Interval Variability during Orthostatic and Mental Stress in Healthy Subjects. Entropy, 2014, 16, 6384-6393.	2.2	20
23	Vasomotor assessment by camera-based photoplethysmography. Current Directions in Biomedical Engineering, 2016, 2, 199-202.	0.4	20
24	Effects of ECG sampling rate on QT interval variability measurement. Biomedical Signal Processing and Control, 2016, 25, 159-164.	5.7	19
25	Unobtrusive acquisition of cardiorespiratory signals. Somnologie, 2017, 21, 93-100.	1.5	15
26	Heart beat detection and analysis from videos. , 2014, , .		14
27	Effect of Rocking Movements on Respiration. PLoS ONE, 2016, 11, e0150581.	2.5	14
28	T Wave Amplitude Correction of QT Interval Variability for Improved Repolarization Lability Measurement. Frontiers in Physiology, 2016, 7, 216.	2.8	13
29	Association of remote imaging photoplethysmography and cutaneous perfusion in volunteers. Scientific Reports, 2020, 10, 16464.	3.3	13
30	Automated identification of cardiac signals after blind source separation for camera-based photoplethysmography. , 2015, , .		12
31	Nocturnal ventricular repolarization lability predicts cardiovascular mortality in the Sleep Heart Health Study. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H495-H505.	3.2	12
32	Pulse decomposition analysis in photoplethysmography imaging. Physiological Measurement, 2020, 41, 095009.	2.1	11
33	Signal-to-noise ratio is more important than sampling rate in beat-to-beat interval estimation from optical sensors. Biomedical Signal Processing and Control, 2022, 74, 103538.	5.7	11
34	Relation between pulse pressure and the pulsation strength in camera-based photoplethysmograms. Current Directions in Biomedical Engineering, 2017, 3, 489-492.	0.4	10
35	Iterative two-dimensional signal warpingâ€"Towards a generalized approach for adaption of one-dimensional signals. Biomedical Signal Processing and Control, 2018, 43, 311-319.	5.7	10
36	Adaptive Gaussian Mixture Model Driven Level Set Segmentation for Remote Pulse Rate Detection. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1361-1372.	6.3	10

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37	Improved heart rate detection for camera-based photoplethysmography by means of Kalman filtering. , 2015, , .		9
38	Remote Photoplethysmographic Assessment of the Peripheral Circulation in Critical Care Patients Recovering From Cardiac Surgery. Shock, 2019, 52, 174-182.	2.1	9
39	Spatio-temporal analysis of blood perfusion by imaging photoplethysmography. , 2018, , .		8
40	Measurement of QT variability by two-dimensional warping. , 2014, , .		7
41	Heart rate from face videos under realistic conditions for advanced driver monitoring. Current Directions in Biomedical Engineering, 2017, 3, 483-487.	0.4	6
42	Robust Methods for Automated Selection of Cardiac Signals After Blind Source Separation. IEEE Transactions on Biomedical Engineering, 2018, 65, 2248-2258.	4.2	6
43	Cascaded output selection for processing of capacitive electrocardiograms by means of independent component analysis. , 2013, , .		5
44	Pulse decomposition analysis in camera-based photoplethysmography. , 2019, 2019, 3179-3182.		5
45	Contact-Free Optical Assessment of Changes in the Chest Wall Perfusion after Coronary Artery Bypass Grafting by Imaging Photoplethysmography. Applied Sciences (Switzerland), 2020, 10, 6537.	2.5	5
46	Skin Detection and Tracking for Camera-Based Photoplethysmography Using a Bayesian Classifier and Level Set Segmentation. Informatik Aktuell, 2017, , 43-48.	0.6	5
47	Assessment of source separation techniques to extract vital parameters from videos. , 2015, , .		4
48	A pharmaceutical therapy recommender system enabling shared decision-making. User Modeling and User-Adapted Interaction, 2022, 32, 1019-1062.	3.8	4
49	Prolonged Wearable ECG Monitoring - a Wavelet Based Approach. , 2007, , .		3
50	Kamerabasierte Erfassung kardiorespiratorischer Signale. TM Technisches Messen, 2013, 80, 179-184.	0.7	3
51	Impact of Sympathetic Activation in Imaging Photoplethysmography. , 2019, , .		3
52	Camera-based spatial assessment of perfusion upon stimuli. Current Directions in Biomedical Engineering, 2019, 5, 105-108.	0.4	3
53	Skin Segmentation using Active Contours and Gaussian Mixture Models for Heart Rate Detection in Videos. , 2020, , .		3
54	Investigation of automated sleep staging from cardiorespiratory signals regarding clinical applicability and robustness. Biomedical Signal Processing and Control, 2022, 71, 103047.	5.7	3

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55	Detection of a Stroke Volume Decrease by Machine-Learning Algorithms Based on Thoracic Bioimpedance in Experimental Hypovolaemia. Sensors, 2022, 22, 5066.	3.8	3
56	Impact of cardiac surgery on the autonomic cardiovascular function. Journal of Computational Surgery, 2014, 1, .	0.6	2
57	Application of recommender system methods for therapy decision support. , 2016, , .		2
58	3D printed flexible substrate with pneumatic driven electrodes for health monitoring. , 2017, , .		2
59	Additively Manufactured Pneumatically Driven Skin Electrodes. Materials, 2018, 11, 19.	2.9	2
60	QRS pattern recognition using a simple clustering approach for continuous data. , 2013, , .		1
61	Individualized Sleep Stage Classification from Cardiorespiratory Features. , 2019, , .		1
62	Neighborhood Optimization for Therapy Decision Support. Current Directions in Biomedical Engineering, 2019, 5, 1-4.	0.4	1
63	Clinical applications for imaging photoplethysmography. , 2022, , 149-164.		1
64	KardiovaskulÃre VariabilitÃtsanalysen zur Risikostratifizierung nach Herzoperationen. Automatisierungstechnik, 2011, 59, 669-682.	0.8	0
65	Multivariate biosignal acquisition to assess the potential of remote photoplethysmography. Biomedizinische Technik, 2012, 57, .	0.8	0
66	Anti Stress App. Biomedizinische Technik, 2012, 57, .	0.8	0
67	Microwave Doppler Radar for Cardiac and Respiratory Activity Measurement â€“ Preliminary Results. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	0
68	Sparse Coding of Cardiac Signals for Automated Component Selection after Blind Source Separation. , 0, , .		0
69	Evaluation of Ventricular Repolarization Variability in Patients With Nonischemic Dilated Cardiomyopathy From Vectorcardiography. , 2021, , .		0
70	Automatic Hypercube Acquisition with high spatial and spectral resolution using a HSI Linescan Camera. Current Directions in Biomedical Engineering, 2021, 7, 811-814.	0.4	0