

Sebastian Zaunseder

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/533209/publications.pdf>

Version: 2024-02-01

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	A pharmaceutical therapy recommender system enabling shared decision-making. <i>User Modeling and User-Adapted Interaction</i> , 2022, 32, 1019-1062.	3.8	4
2	Investigation of automated sleep staging from cardiorespiratory signals regarding clinical applicability and robustness. <i>Biomedical Signal Processing and Control</i> , 2022, 71, 103047.	5.7	3
3	Clinical applications for imaging photoplethysmography. , 2022, , 149-164.		1
4	Signal-to-noise ratio is more important than sampling rate in beat-to-beat interval estimation from optical sensors. <i>Biomedical Signal Processing and Control</i> , 2022, 74, 103538.	5.7	11
5	Detection of a Stroke Volume Decrease by Machine-Learning Algorithms Based on Thoracic Bioimpedance in Experimental Hypovolaemia. <i>Sensors</i> , 2022, 22, 5066.	3.8	3
6	Adaptive Gaussian Mixture Model Driven Level Set Segmentation for Remote Pulse Rate Detection. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 1361-1372.	6.3	10
7	Evaluation of Ventricular Repolarization Variability in Patients With Nonischemic Dilated Cardiomyopathy From Vectorcardiography. , 2021, , .		0
8	Automatic Hypercube Acquisition with high spatial and spectral resolution using a HSI Linescan Camera. <i>Current Directions in Biomedical Engineering</i> , 2021, 7, 811-814.	0.4	0
9	Skin Segmentation using Active Contours and Gaussian Mixture Models for Heart Rate Detection in Videos. , 2020, , .		3
10	Association of remote imaging photoplethysmography and cutaneous perfusion in volunteers. <i>Scientific Reports</i> , 2020, 10, 16464.	3.3	13
11	Contact-Free Optical Assessment of Changes in the Chest Wall Perfusion after Coronary Artery Bypass Grafting by Imaging Photoplethysmography. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6537.	2.5	5
12	Pulse decomposition analysis in photoplethysmography imaging. <i>Physiological Measurement</i> , 2020, 41, 095009.	2.1	11
13	Remote health diagnosis and monitoring in the time of COVID-19. <i>Physiological Measurement</i> , 2020, 41, 10TR01.	2.1	44
14	Pulse decomposition analysis in camera-based photoplethysmography. , 2019, 2019, 3179-3182.		5
15	Individualized Sleep Stage Classification from Cardiorespiratory Features. , 2019, , .		1
16	Predicting sepsis with a recurrent neural network using the MIMIC III database. <i>Computers in Biology and Medicine</i> , 2019, 113, 103395.	7.0	86
17	Impact of Sympathetic Activation in Imaging Photoplethysmography. , 2019, , .		3
18	Neighborhood Optimization for Therapy Decision Support. <i>Current Directions in Biomedical Engineering</i> , 2019, 5, 1-4.	0.4	1

#	ARTICLE	IF	CITATIONS
19	Camera-based spatial assessment of perfusion upon stimuli. Current Directions in Biomedical Engineering, 2019, 5, 105-108.	0.4	3
20	Remote Photoplethysmographic Assessment of the Peripheral Circulation in Critical Care Patients Recovering From Cardiac Surgery. Shock, 2019, 52, 174-182.	2.1	9
21	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
22	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
23	Robust Methods for Automated Selection of Cardiac Signals After Blind Source Separation. IEEE Transactions on Biomedical Engineering, 2018, 65, 2248-2258.	4.2	6
24	Local Group Invariance for Heart Rate Estimation from Face Videos in the Wild. , 2018, , .		42
25	Aspect-Based Sentiment Analysis of Drug Reviews Applying Cross-Domain and Cross-Data Learning. , 2018, , .		81
26	Additively Manufactured Pneumatically Driven Skin Electrodes. Materials, 2018, 11, 19.	2.9	2
27	Camera-based photoplethysmography in an intraoperative setting. BioMedical Engineering OnLine, 2018, 17, 33.	2.7	25
28	Cardiovascular assessment by imaging photoplethysmography â€” a review. Biomedizinische Technik, 2018, 63, 617-634.	0.8	78
29	Spatio-temporal analysis of blood perfusion by imaging photoplethysmography. , 2018, , .		8
30	Assessment of blind source separation techniques for video-based cardiac pulse extraction. Journal of Biomedical Optics, 2017, 22, 035002.	2.6	24
31	Non-invasive Fetal ECG Signal Quality Assessment for Multichannel Heart Rate Estimation. IEEE Transactions on Biomedical Engineering, 2017, 64, 2793-2802.	4.2	44
32	Monitoring fetal maturationâ€”objectives, techniques and indices of autonomic function. Physiological Measurement, 2017, 38, R61-R88.	2.1	45
33	Unobtrusive acquisition of cardiorespiratory signals. Somnologie, 2017, 21, 93-100.	1.5	15
34	Heart rate from face videos under realistic conditions for advanced driver monitoring. Current Directions in Biomedical Engineering, 2017, 3, 483-487.	0.4	6
35	Relation between pulse pressure and the pulsation strength in camera-based photoplethysmograms. Current Directions in Biomedical Engineering, 2017, 3, 489-492.	0.4	10
36	The value of polarization in camera-based photoplethysmography. Biomedical Optics Express, 2017, 8, 2822.	2.9	21

#	ARTICLE	IF	CITATIONS
37	Therapy Decision Support Based on Recommender System Methods. Journal of Healthcare Engineering, 2017, 2017, 1-11.	1.9	34
38	3D printed flexible substrate with pneumatic driven electrodes for health monitoring. , 2017, , .		2
39	Skin Detection and Tracking for Camera-Based Photoplethysmography Using a Bayesian Classifier and Level Set Segmentation. Informatik Aktuell, 2017, , 43-48.	0.6	5
40	T Wave Amplitude Correction of QT Interval Variability for Improved Repolarization Lability Measurement. Frontiers in Physiology, 2016, 7, 216.	2.8	13
41	Camera-based photoplethysmography in critical care patients. Clinical Hemorheology and Microcirculation, 2016, 64, 77-90.	1.7	33
42	An open-source framework for stress-testing non-invasive foetal ECG extraction algorithms. Physiological Measurement, 2016, 37, 627-648.	2.1	125
43	Application of recommender system methods for therapy decision support. , 2016, , .		2
44	A practical guide to non-invasive foetal electrocardiogram extraction and analysis. Physiological Measurement, 2016, 37, R1-R35.	2.1	99
45	Vasomotor assessment by camera-based photoplethysmography. Current Directions in Biomedical Engineering, 2016, 2, 199-202.	0.4	20
46	Effects of ECG sampling rate on QT interval variability measurement. Biomedical Signal Processing and Control, 2016, 25, 159-164.	5.7	19
47	Effect of Rocking Movements on Respiration. PLoS ONE, 2016, 11, e0150581.	2.5	14
48	Assessment of source separation techniques to extract vital parameters from videos. , 2015, , .		4
49	Automated identification of cardiac signals after blind source separation for camera-based photoplethysmography. , 2015, , .		12
50	Improved heart rate detection for camera-based photoplethysmography by means of Kalman filtering. , 2015, , .		9
51	The effect of body posture on cognitive performance: a question of sleep quality. Frontiers in Human Neuroscience, 2014, 8, 171.	2.0	20
52	Entropy Analysis of RR and QT Interval Variability during Orthostatic and Mental Stress in Healthy Subjects. Entropy, 2014, 16, 6384-6393.	2.2	20
53	Heart beat detection and analysis from videos. , 2014, , .		14
54	An ECG simulator for generating maternal-foetal activity mixtures on abdominal ECG recordings. Physiological Measurement, 2014, 35, 1537-1550.	2.1	82

#	ARTICLE	IF	CITATIONS
55	Measurement of QT variability by two-dimensional warping. , 2014, , .		7
56	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
57	Robust fetal ECG extraction and detection from abdominal leads. Physiological Measurement, 2014, 35, 1551-1567.	2.1	81
58	Impact of cardiac surgery on the autonomic cardiovascular function. Journal of Computational Surgery, 2014, 1, .	0.6	2
59	QRS pattern recognition using a simple clustering approach for continuous data. , 2013, , .		1
60	Cascaded output selection for processing of capacitive electrocardiograms by means of independent component analysis. , 2013, , .		5
61	Kamerabasierte Erfassung kardiorespiratorischer Signale. TM Technisches Messen, 2013, 80, 179-184.	0.7	3
62	Microwave Doppler Radar for Cardiac and Respiratory Activity Measurement â€™ Preliminary Results. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.8	0
63	ROI Selection for Remote Photoplethysmography. Informatik Aktuell, 2013, , 99-103.	0.6	40
64	Multivariate biosignal acquisition to assess the potential of remote photoplethysmography. Biomedizinische Technik, 2012, 57, .	0.8	0
65	Effects of awareness and nociception on heart rate variability during general anaesthesia. Physiological Measurement, 2012, 33, 207-217.	2.1	20
66	Anti Stress App. Biomedizinische Technik, 2012, 57, .	0.8	0
67	KardiovaskulÃre VariabilitÃtsanalysen zur Risikostratifizierung nach Herzoperationen. Automatisierungstechnik, 2011, 59, 669-682.	0.8	0
68	Optimization of ECG Classification by Means of Feature Selection. IEEE Transactions on Biomedical Engineering, 2011, 58, 2168-2177.	4.2	249
69	Prolonged Wearable ECG Monitoring - a Wavelet Based Approach. , 2007, , .		3
70	Sparse Coding of Cardiac Signals for Automated Component Selection after Blind Source Separation. , 0, , .		0