

Christoph Hoog Antink

List of Publications by Year in descending order

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papers

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56
all docs

56
docs citations

56
times ranked

706
citing authors

#	ARTICLE	IF	CITATIONS
1	Ambient and Unobtrusive Cardiorespiratory Monitoring Techniques. IEEE Reviews in Biomedical Engineering, 2015, 8, 30-43.	18.0	128
2	A Broader Look: Camera-Based Vital Sign Estimation across the Spectrum. Yearbook of Medical Informatics, 2019, 28, 102-114.	1.0	41
3	A Deep Learning-Based Camera Approach for Vital Sign Monitoring Using Thermography Images for ICU Patients. Sensors, 2021, 21, 1495.	3.8	36
4	Reducing false alarms in the ICU by quantifying self-similarity of multimodal biosignals. Physiological Measurement, 2016, 37, 1233-1252.	2.1	32
5	Beat-to-beat heart rate estimation fusing multimodal video and sensor data. Biomedical Optics Express, 2015, 6, 2895.	2.9	31
6	Noncontact Monitoring of Heart Rate and Heart Rate Variability in Geriatric Patients Using Photoplethysmography Imaging. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1781-1792.	6.3	27
7	Motion Artifact Quantification and Sensor Fusion for Unobtrusive Health Monitoring. Sensors, 2018, 18, 38.	3.8	24
8	UnoViS: the MedIT public unobtrusive vital signs database. Health Information Science and Systems, 2015, 3, 2.	5.2	23
9	Accuracy of heart rate variability estimated with reflective wrist-PPG in elderly vascular patients. Scientific Reports, 2021, 11, 8123.	3.3	23
10	Detection of heart beats in multimodal data: a robust beat-to-beat interval estimation approach. Physiological Measurement, 2015, 36, 1679-1690.	2.1	20
11	Non-contact sensing of neonatal pulse rate using camera-based imaging: a clinical feasibility study. Physiological Measurement, 2020, 41, 024001.	2.1	20
12	Ballistocardiography Can Estimate Beat-to-Beat Heart Rate Accurately at Night in Patients After Vascular Intervention. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2230-2237.	6.3	18
13	A Multi-Modal Sensor for a Bed-Integrated Unobtrusive Vital Signs Sensing Array. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 529-539.	4.0	16
14	Dog behaviour classification with movement sensors placed on the harness and the collar. Applied Animal Behaviour Science, 2021, 241, 105393.	1.9	15
15	Fast body part segmentation and tracking of neonatal video data using deep learning. Medical and Biological Engineering and Computing, 2020, 58, 3049-3061.	2.8	14
16	A synthesizer framework for multimodal cardiorespiratory signals. Biomedical Physics and Engineering Express, 2017, 3, 035028.	1.2	13
17	Modeling photoplethysmographic signals in camera-based perfusion measurements: optoelectronic skin phantom. Biomedical Optics Express, 2019, 10, 4353.	2.9	13
18	Sensor Fusion for Unobtrusive Respiratory Rate Estimation in Dogs. IEEE Sensors Journal, 2019, 19, 7072-7081.	4.7	12

#	ARTICLE	IF	CITATIONS
19	Car Seats with Capacitive ECG Electrodes Can Detect Cardiac Pacemaker Spikes. <i>Sensors</i> , 2020, 20, 6288.	3.8	12
20	Application of internal electrodes to the oesophageal and tracheal tube in an animal trial: evaluation of its clinical and technical potentiality in electrical impedance tomography. <i>Journal of Clinical Monitoring and Computing</i> , 2014, 28, 299-308.	1.6	11
21	Physiological Motion Artifacts in Capacitive ECG: Ballistocardiographic Impedance Distortions. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 3297-3307.	4.7	11
22	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
23	A model-based source separation algorithm for lung perfusion imaging using electrical impedance tomography. <i>Physiological Measurement</i> , 2021, 42, 084001.	2.1	10
24	Reducing false arrhythmia alarms using robust interval estimation and machine learning. , 2015, , .		9
25	A shape-based quality evaluation and reconstruction method for electrical impedance tomography. <i>Physiological Measurement</i> , 2015, 36, 1161-1177.	2.1	9
26	Fusing QRS Detection, Waveform Features, and Robust Interval Estimation with a Random Forest to Classify Atrial Fibrillation. , 0, , .		9
27	Local Interval Estimation Improves Accuracy and Robustness of Heart Rate Variability Derivation from Photoplethysmography. , 2018, 2018, 3558-3561.		9
28	Photoplethysmography imaging:camera performance evaluation by means of an optoelectronic skin perfusion phantom. <i>Physiological Measurement</i> , 2020, 41, 054001.	2.1	9
29	Monitoring of lobectomy in cystic fibrosis with electrical impedance tomography â€œ a new diagnostic tool. <i>Biomedizinische Technik</i> , 2014, 59, 545-8.	0.8	8
30	Camera fusion for real-time temperature monitoring of neonates using deep learning. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 1787-1800.	2.8	7
31	Non-Contact Remote Measurement of Heart Rate Variability using Near-Infrared Photoplethysmography Imaging. , 2018, 2018, 846-849.		6
32	A Neonatal Phantom for Vital Signs Simulation. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021, 15, 949-959.	4.0	6
33	Ballistocardiographic Coupling of Triboelectric Charges into Capacitive ECG. , 2019, , .		5
34	Exploring novel algorithms for atrial fibrillation detection by driving graduate level education in medical machine learning. <i>Physiological Measurement</i> , 2022, 43, 074001.	2.1	5
35	MuSeSe - A multisensor armchair for unobtrusive vital sign estimation and motion artifact analysis. , 2017, 2017, 857-860.		4
36	Longitudinal Master Track and Field Performance Decline Rates Are Lower and Performance Is Better Compared to Athletes Competing Only Once. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 1376-1381.	3.6	4

#	ARTICLE	IF	CITATIONS
37	YouTube Videos on Parkinson's Disease are a Relevant Source of Patient Information. Journal of Parkinson's Disease, 2021, 11, 833-842.	2.8	4
38	Copula-Based Data Augmentation on a Deep Learning Architecture for Cardiac Sensor Fusion. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2521-2532.	6.3	4
39	Non-Contact Measurement of Heart Rate Variability in Frail Geriatric Patients: Response to Early Geriatric Rehabilitation and Comparison with Healthy Old Community-Dwelling Individuals – A Pilot Study. Gerontology, 2021, , 1-13.	2.8	4
40	Unobtrusive Measurement of Physiological Features Under Simulated and Real Driving Conditions. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4767-4777.	8.0	4
41	Waveform Analysis for Camera-based Photoplethysmography Imaging. , 2019, 2019, 2713-2718.		3
42	Learning from machine learning: prediction of age-related athletic performance decline trajectories. GeroScience, 2021, 43, 2547-2559.	4.6	3
43	Multi-label Classification of Cardiac Abnormalities for Multi-lead ECG Recordings Based on Auto-encoder Features and a Neural Network Classifier. , 2021, , .		3
44	A Novel Sensor Design for Amplitude Modulated Measurement of Capacitive ECG. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	3
45	Determining the connection between capacitively coupled electrocardiography data and the ground truth. , 2015, , .		2
46	On the Performance of Bed-Integrated Ballistocardiography in Long-Term Heart Rate Monitoring of Vascular Patients. , 0, , .		2
47	Model-based sensor fusion of multimodal cardiorespiratory signals using an unscented Kalman filter. Automatisierungstechnik, 2020, 68, 933-940.	0.8	2
48	Signal-Level Fusion With Convolutional Neural Networks for Capacitively Coupled ECG in the Car. , 0, , .		1
49	Modelling and Synthesizing Motion Artifacts in Unobtrusive Multimodal Sensing using Copulas. , 2018, 2018, 6006-6009.		1
50	Using a Motion Capture System as Reference for Motion Tracking in Photoplethysmography Imaging. , 2019, 2019, 3915-3918.		1
51	Modulated ECG: Utilization of the Time-Variant Coupling in Capacitive ECG. , 2021, , .		1
52	Acceleration of Longitudinal Track and Field Performance Declines in Athletes Who Still Compete at the Age of 100 Years. Frontiers in Physiology, 2021, 12, 730995.	2.8	1
53	Improving Machine Learning Education During the COVID-Pandemic Using Past Computing in Cardiology Challenges. , 2021, , .		1
54	A GREIT-type linear reconstruction algorithm for EIT using eigenimages. Journal of Physics: Conference Series, 2013, 434, 012073.	0.4	0

#	ARTICLE	IF	CITATIONS
55	Synthesis of cardiac signals using a Copula-approach. AIP Conference Proceedings, 2019, , .	0.4	0
56	QUANTIFICATION OF RESPIRATORY SINUS ARRHYTHMIA WITH HIGH-FRAMERATE ELECTRICAL IMPEDANCE TOMOGRAPHY. Acta Polytechnica, 2013, 53, 854-861.	0.6	0