

# Christoph Hoog Antink

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

691  
citations

623734

14  
h-index

642732

23  
g-index

56  
all docs

56  
docs citations

56  
times ranked

706  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Sensor Design for Amplitude Modulated Measurement of Capacitive ECG. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	3
2	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
3	Unobtrusive Measurement of Physiological Features Under Simulated and Real Driving Conditions. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4767-4777.	8.0	4
4	Camera fusion for real-time temperature monitoring of neonates using deep learning. Medical and Biological Engineering and Computing, 2022, 60, 1787-1800.	2.8	7
5	Exploring novel algorithms for atrial fibrillation detection by driving graduate level education in medical machine learning. Physiological Measurement, 2022, 43, 074001.	2.1	5
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	A Deep Learning-Based Camera Approach for Vital Sign Monitoring Using Thermography Images for ICU Patients. Sensors, 2021, 21, 1495.	3.8	36
8	Longitudinal Master Track and Field Performance Decline Rates Are Lower and Performance Is Better Compared to Athletes Competing Only Once. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 1376-1381.	3.6	4
9	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
10	Accuracy of heart rate variability estimated with reflective wrist-PPG in elderly vascular patients. Scientific Reports, 2021, 11, 8123.	3.3	23
11	Modulated ECG: Utilization of the Time-Variant Coupling in Capacitive ECG. , 2021, , .		1
12	Learning from machine learning: prediction of age-related athletic performance decline trajectories. GeroScience, 2021, 43, 2547-2559.	4.6	3
13	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
14	A model-based source separation algorithm for lung perfusion imaging using electrical impedance tomography. Physiological Measurement, 2021, 42, 084001.	2.1	10
15	Dog behaviour classification with movement sensors placed on the harness and the collar. Applied Animal Behaviour Science, 2021, 241, 105393.	1.9	15
16	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
17	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
18	A Neonatal Phantom for Vital Signs Simulation. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 949-959.	4.0	6

#	ARTICLE	IF	CITATIONS
19	Improving Machine Learning Education During the COVID-Pandemic Using Past Computing in Cardiology Challenges. , 2021, , .		1
20	Multi-label Classification of Cardiac Abnormalities for Multi-lead ECG Recordings Based on Auto-encoder Features and a Neural Network Classifier. , 2021, , .		3
21	Car Seats with Capacitive ECG Electrodes Can Detect Cardiac Pacemaker Spikes. Sensors, 2020, 20, 6288.	3.8	12
22	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
23	Non-contact sensing of neonatal pulse rate using camera-based imaging: a clinical feasibility study. Physiological Measurement, 2020, 41, 024001.	2.1	20
24	Physiological Motion Artifacts in Capacitive ECG: Ballistocardiographic Impedance Distortions. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3297-3307.	4.7	11
25	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
26	Photoplethysmography imaging:camera performance evaluation by means of an optoelectronic skin perfusion phantom. Physiological Measurement, 2020, 41, 054001.	2.1	9
27	Model-based sensor fusion of multimodal cardiorespiratory signals using an unscented Kalman filter. Automatisierungstechnik, 2020, 68, 933-940.	0.8	2
28	A Broader Look: Camera-Based Vital Sign Estimation across the Spectrum. Yearbook of Medical Informatics, 2019, 28, 102-114.	1.0	41
29	Waveform Analysis for Camera-based Photoplethysmography Imaging. , 2019, 2019, 2713-2718.		3
30	Ballistocardiographic Coupling of Triboelectric Charges into Capacitive ECG. , 2019, , .		5
31	Synthesis of cardiac signals using a Copula-approach. AIP Conference Proceedings, 2019, , .	0.4	0
32	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
33	Sensor Fusion for Unobtrusive Respiratory Rate Estimation in Dogs. IEEE Sensors Journal, 2019, 19, 7072-7081.	4.7	12
34	Using a Motion Capture System as Reference for Motion Tracking in Photoplethysmography Imaging. , 2019, 2019, 3915-3918.		1
35	Modeling photoplethysmographic signals in camera-based perfusion measurements: optoelectronic skin phantom. Biomedical Optics Express, 2019, 10, 4353.	2.9	13
36	Local Interval Estimation Improves Accuracy and Robustness of Heart Rate Variability Derivation from Photoplethysmography. , 2018, 2018, 3558-3561.		9

#	ARTICLE	IF	CITATIONS
37	Non-Contact Remote Measurement of Heart Rate Variability using Near-Infrared Photoplethysmography Imaging. , 2018, 2018, 846-849.		6
38	Modelling and Synthesizing Motion Artifacts in Unobtrusive Multimodal Sensing using Copulas. , 2018, 2018, 6006-6009.		1
39	Motion Artifact Quantification and Sensor Fusion for Unobtrusive Health Monitoring. Sensors, 2018, 18, 38.	3.8	24
40	A synthesizer framework for multimodal cardiorespiratory signals. Biomedical Physics and Engineering Express, 2017, 3, 035028.	1.2	13
41	MuSeSe - A multisensor armchair for unobtrusive vital sign estimation and motion artifact analysis. , 2017, 2017, 857-860.		4
42	Reducing false alarms in the ICU by quantifying self-similarity of multimodal biosignals. Physiological Measurement, 2016, 37, 1233-1252.	2.1	32
43	UnoViS: the MedIT public unobtrusive vital signs database. Health Information Science and Systems, 2015, 3, 2.	5.2	23
44	Determining the connection between capacitively coupled electrocardiography data and the ground truth. , 2015, , .		2
45	Reducing false arrhythmia alarms using robust interval estimation and machine learning. , 2015, , .		9
46	Detection of heart beats in multimodal data: a robust beat-to-beat interval estimation approach. Physiological Measurement, 2015, 36, 1679-1690.	2.1	20
47	A shape-based quality evaluation and reconstruction method for electrical impedance tomography. Physiological Measurement, 2015, 36, 1161-1177.	2.1	9
48	Ambient and Unobtrusive Cardiorespiratory Monitoring Techniques. IEEE Reviews in Biomedical Engineering, 2015, 8, 30-43.	18.0	128
49	Beat-to-beat heart rate estimation fusing multimodal video and sensor data. Biomedical Optics Express, 2015, 6, 2895.	2.9	31
50	Monitoring of lobectomy in cystic fibrosis with electrical impedance tomography â€œ a new diagnostic tool. Biomedizinische Technik, 2014, 59, 545-8.	0.8	8
51	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. Journal of Clinical Monitoring and Computing, 2014, 28, 299-308.	1.6	11
52	A GREIT-type linear reconstruction algorithm for EIT using eigenimages. Journal of Physics: Conference Series, 2013, 434, 012073.	0.4	0
53	QUANTIFICATION OF RESPIRATORY SINUS ARRHYTHMIA WITH HIGH-FRAMERATE ELECTRICAL IMPEDANCE TOMOGRAPHY. Acta Polytechnica, 2013, 53, 854-861.	0.6	0
54	Fusing QRS Detection, Waveform Features, and Robust Interval Estimation with a Random Forest to Classify Atrial Fibrillation. , 0, , .		9

#	ARTICLE	IF	CITATIONS
55	Signal-Level Fusion With Convolutional Neural Networks for Capacitively Coupled ECG in the Car. , 0, , .		1
56	On the Performance of Bed-Integrated Ballistocardiography in Long-Term Heart Rate Monitoring of Vascular Patients. , 0, , .		2