

Oliver Faust

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4301031/oliver-faust-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

3,417
citations

31
h-index

57
g-index

102
ext. papers

4,365
ext. citations

3.4
avg. IF

5.73
L-index

#	Paper	IF	Citations
91	Application of photoplethysmography signals for healthcare systems: An in-depth review.. <i>Computer Methods and Programs in Biomedicine</i> , 2022 , 216, 106677	6.9	8
90	Transfer learning techniques for medical image analysis: A review. <i>Biocybernetics and Biomedical Engineering</i> , 2022 , 42, 79-107	5.7	6
89	Heart rate variability for medical decision support systems: A review.. <i>Computers in Biology and Medicine</i> , 2022 , 145, 105407	7	1
88	An Accurate Multiple Sclerosis Detection Model Based on Exemplar Multiple Parameters Local Phase Quantization: ExMPLPQ. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4920	2.6	8
87	Automated blast cell detection for Acute Lymphoblastic Leukemia diagnosis. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102690	4.9	8
86	Accurate detection of sleep apnea with long short-term memory network based on RR interval signals. <i>Knowledge-Based Systems</i> , 2021 , 212, 106591	7.3	12
85	Automated ASD detection using hybrid deep lightweight features extracted from EEG signals. <i>Computers in Biology and Medicine</i> , 2021 , 134, 104548	7	18
84	Automated Arrhythmia Detection Based on RR Intervals. <i>Diagnostics</i> , 2021 , 11,	3.8	10
83	A review of patient-led data acquisition for atrial fibrillation detection to prevent stroke. <i>Biomedical Signal Processing and Control</i> , 2021 , 69, 102818	4.9	4
82	Automated classification of five arrhythmias and normal sinus rhythm based on RR interval signals. <i>Expert Systems With Applications</i> , 2021 , 181, 115031	7.8	10
81	Atrial fibrillation detection service validation tool. <i>Software Impacts</i> , 2021 , 10, 100117	1.8	
80	Hybrid Decision Support to Monitor Atrial Fibrillation for Stroke Prevention. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	3
79	A Review of Atrial Fibrillation Detection Methods as a Service. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	11
78	Comprehensive electrocardiographic diagnosis based on deep learning. <i>Artificial Intelligence in Medicine</i> , 2020 , 103, 101789	7.4	55
77	Validating the robustness of an internet of things based atrial fibrillation detection system. <i>Pattern Recognition Letters</i> , 2020 , 133, 55-61	4.7	10
76	A Smart Service Platform for Cost Efficient Cardiac Health Monitoring. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	13
75	Automated Detection of Sleep Stages Using Deep Learning Techniques: A Systematic Review of the Last Decade (2010-2020). <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8963	2.6	15

74	Automatic detection of ischemic stroke using higher order spectra features in brain MRI images. <i>Cognitive Systems Research</i> , 2019 , 58, 134-142	4.8	11
73	A review of automated sleep stage scoring based on physiological signals for the new millennia. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 176, 81-91	6.9	47
72	Application of nonlinear methods to discriminate fractionated electrograms in paroxysmal versus persistent atrial fibrillation. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 175, 163-178	6.9	12
71	AUTOMATED CHARACTERIZATION OF CARDIOVASCULAR DISEASES USING WAVELET TRANSFORM FEATURES EXTRACTED FROM ECG SIGNALS. <i>Journal of Mechanics in Medicine and Biology</i> , 2019 , 19, 1940009	0.7	8
70	Improving the safety of atrial fibrillation monitoring systems through human verification. <i>Safety Science</i> , 2019 , 118, 881-886	5.8	7
69	HEART-RATE BASED SLEEP APNEA DETECTION USING ARDUINO. <i>Journal of Mechanics in Medicine and Biology</i> , 2019 , 19, 1940006	0.7	1
68	Deep learning for healthcare applications based on physiological signals: A review. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 161, 1-13	6.9	442
67	Comparative assessment of texture features for the identification of cancer in ultrasound images: a review. <i>Biocybernetics and Biomedical Engineering</i> , 2018 , 38, 275-296	5.7	19
66	Documenting and predicting topic changes in Computers in Biology and Medicine: A bibliometric keyword analysis from 1990 to 2017. <i>Informatics in Medicine Unlocked</i> , 2018 , 11, 15-27	5.3	9
65	Automated detection of atrial fibrillation using long short-term memory network with RR interval signals. <i>Computers in Biology and Medicine</i> , 2018 , 102, 327-335	7	115
64	Computer aided diagnosis of Coronary Artery Disease, Myocardial Infarction and carotid atherosclerosis using ultrasound images: A review. <i>Physica Medica</i> , 2017 , 33, 1-15	2.7	33
63	NONLINEAR ANALYSIS OF CORONARY ARTERY DISEASE, MYOCARDIAL INFARCTION, AND NORMAL ECG SIGNALS. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1740006	0.7	3
62	ALGORITHM FOR THE DETECTION OF CONGESTIVE HEART FAILURE INDEX. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1740043	0.7	3
61	Automated Diagnosis of Depression Electroencephalograph Signals Using Linear Prediction Coding and Higher Order Spectra Features. <i>Journal of Medical Imaging and Health Informatics</i> , 2017 , 7, 1857-1862	1.2	18
60	A REVIEW OF ECG-BASED DIAGNOSIS SUPPORT SYSTEMS FOR OBSTRUCTIVE SLEEP APNEA. <i>Journal of Mechanics in Medicine and Biology</i> , 2016 , 16, 1640004	0.7	34
59	COMPUTER AIDED DIAGNOSIS FOR CARDIOVASCULAR DISEASES BASED ON ECG SIGNALS: A SURVEY. <i>Journal of Mechanics in Medicine and Biology</i> , 2016 , 16, 1640001	0.7	10
58	FORMAL AND MODEL DRIVEN DESIGN OF THE BRIGHT LIGHT THERAPY SYSTEM LUXAMET. <i>Journal of Mechanics in Medicine and Biology</i> , 2016 , 16, 1650065	0.7	
57	Nonlinear Dynamics Measures for Automated EEG-Based Sleep Stage Detection. <i>European Neurology</i> , 2015 , 74, 268-87	2.1	57

56	Data Overloading in Medical Imaging: Emerging Issues, Challenges and Opportunities in Efficient Data Management. <i>Journal of Medical Imaging and Health Informatics</i> , 2015 , 5, 755-764	1.2	6
55	Ultrasound-based tissue characterization and classification of fatty liver disease: A screening and diagnostic paradigm. <i>Knowledge-Based Systems</i> , 2015 , 75, 66-77	7.3	52
54	Wavelet-based EEG processing for computer-aided seizure detection and epilepsy diagnosis. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2015 , 26, 56-64	3.2	303
53	The role of real-time in biomedical science: a meta-analysis on computational complexity, delay and speedup. <i>Computers in Biology and Medicine</i> , 2015 , 58, 73-84	7	12
52	Application of infrared thermography in computer aided diagnosis. <i>Infrared Physics and Technology</i> , 2014 , 66, 160-175	2.7	57
51	DEPRESSION DIAGNOSIS SUPPORT SYSTEM BASED ON EEG SIGNAL ENTROPIES. <i>Journal of Mechanics in Medicine and Biology</i> , 2014 , 14, 1450035	0.7	58
50	Wavelet Based Machine Learning Techniques for Electrocardiogram Signal Analysis. <i>Journal of Medical Imaging and Health Informatics</i> , 2014 , 4, 737-742	1.2	7
49	Linear and nonlinear analysis of normal and CAD-affected heart rate signals. <i>Computer Methods and Programs in Biomedicine</i> , 2014 , 113, 55-68	6.9	119
48	Data Mining Framework for Breast Cancer Detection in Mammograms: A Hybrid Feature Extraction Paradigm. <i>Journal of Medical Imaging and Health Informatics</i> , 2014 , 4, 756-765	1.2	2
47	Automated Classification of Normal and Premature Ventricular Contractions in Electrocardiogram Signals. <i>Journal of Medical Imaging and Health Informatics</i> , 2014 , 4, 886-892	1.2	10
46	Symptomatic Versus Asymptomatic Plaque Classification in Carotid Ultrasound 2014 , 399-408		
45	A Comparative Study of Different Entropies for Spectrum Sensing Techniques. <i>Wireless Personal Communications</i> , 2013 , 69, 1719-1733	1.9	5
44	Design of a fault-tolerant decision-making system for biomedical applications. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16, 725-35	2.1	4
43	Understanding symptomatology of atherosclerotic plaque by image-based tissue characterization. <i>Computer Methods and Programs in Biomedicine</i> , 2013 , 110, 66-75	6.9	51
42	Automated identification of normal and diabetes heart rate signals using nonlinear measures. <i>Computers in Biology and Medicine</i> , 2013 , 43, 1523-9	7	99
41	Automated Detection of Premature Ventricular Contraction Using Recurrence Quantification Analysis on Heart Rate Signals. <i>Journal of Medical Imaging and Health Informatics</i> , 2013 , 3, 462-469	1.2	5
40	A Systems Approach to Cardiac Health Diagnosis. <i>Journal of Medical Imaging and Health Informatics</i> , 2013 , 3, 261-267	1.2	10
39	Automated Detection of Alcohol Related Changes in Electroencephalograph Signals. <i>Journal of Medical Imaging and Health Informatics</i> , 2013 , 3, 333-339	1.2	21

38	Cardiac Arrhythmia Classification Using Electrocardiogram. <i>Journal of Medical Imaging and Health Informatics</i> , 2013 , 3, 448-454	1.2	12
37	Automated Detection of Pulmonary Edema and Respiratory Failure Using Physiological Signals. <i>Journal of Medical Imaging and Health Informatics</i> , 2013 , 3, 424-431	1.2	2
36	FORMAL AND MODEL DRIVEN DESIGN OF A HIGH SPEED DATA TRANSMISSION CHANNEL. <i>Journal of Circuits, Systems and Computers</i> , 2013 , 22, 1340038	0.9	1
35	An integrated diabetic index using heart rate variability signal features for diagnosis of diabetes. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16, 222-34	2.1	47
34	AUTOMATED GLAUCOMA DETECTION USING HYBRID FEATURE EXTRACTION IN RETINAL FUNDUS IMAGES. <i>Journal of Mechanics in Medicine and Biology</i> , 2013 , 13, 1350011	0.7	37
33	COMPUTER-BASED IDENTIFICATION OF NORMAL AND ALCOHOLIC EEG SIGNALS USING WAVELET PACKETS AND ENERGY MEASURES. <i>Journal of Mechanics in Medicine and Biology</i> , 2013 , 13, 1350033	0.7	41
32	Cardiac Health Visualization and Diagnosis Using Entropies. <i>Journal of Medical Imaging and Health Informatics</i> , 2013 , 3, 409-416	1.2	3
31	Heart Rate Variability Analysis for Different Age and Gender. <i>Journal of Medical Imaging and Health Informatics</i> , 2013 , 3, 395-400	1.2	9
30	Ethics of Biomaterials for Implants 2013 , 59-75		1
29	An Accurate and Generalized Approach to Plaque Characterization in 346 Carotid Ultrasound Scans. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012 , 61, 1045-1053	5.2	59
28	Algorithms for the automated detection of diabetic retinopathy using digital fundus images: a review. <i>Journal of Medical Systems</i> , 2012 , 36, 145-57	5.1	165
27	NONLINEAR ANALYSIS OF PHYSIOLOGICAL SIGNALS: A REVIEW. <i>Journal of Mechanics in Medicine and Biology</i> , 2012 , 12, 1240015	0.7	52
26	A systematic approach to embedded biomedical decision making. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 108, 656-64	6.9	17
25	Compressed sampling for heart rate monitoring. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 108, 1191-8	6.9	12
24	ThyroScreen system: high resolution ultrasound thyroid image characterization into benign and malignant classes using novel combination of texture and discrete wavelet transform. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 107, 233-41	6.9	91
23	Formal design methods for reliable computer-aided diagnosis: a review. <i>IEEE Reviews in Biomedical Engineering</i> , 2012 , 5, 15-28	6.4	51
22	Symptomatic vs. asymptomatic plaque classification in carotid ultrasound. <i>Journal of Medical Systems</i> , 2012 , 36, 1861-71	5.1	90
21	Linear and non-linear analysis of cardiac health in diabetic subjects. <i>Biomedical Signal Processing and Control</i> , 2012 , 7, 295-302	4.9	34

20	COMPREHENSIVE ANALYSIS OF NORMAL AND DIABETIC HEART RATE SIGNALS: A REVIEW. <i>Journal of Mechanics in Medicine and Biology</i> , 2012 , 12, 1240033	0.7	9
19	Channel estimation algorithms for OFDM systems. <i>International Journal of Signal and Imaging Systems Engineering</i> , 2012 , 5, 267	3.5	3
18	Automated detection of sleep apnea from electrocardiogram signals using nonlinear parameters. <i>Physiological Measurement</i> , 2011 , 32, 287-303	2.9	63
17	Breast imaging: A survey. <i>World Journal of Clinical Oncology</i> , 2011 , 2, 171-8	2.5	87
16	Automatic Diagnosis of Glaucoma Using Digital Fundus Images 2011 , 207-226		
15	Computer-Aided Diagnosis of Diabetic Retinopathy Stages Using Digital Fundus Images 2011 , 301-317		
14	Systems engineering principles for the design of biomedical signal processing systems. <i>Computer Methods and Programs in Biomedicine</i> , 2011 , 102, 267-76	6.9	16
13	Towards the systematic development of medical networking technology. <i>Journal of Medical Systems</i> , 2011 , 35, 1431-45	5.1	14
12	Integrated index for cardiac arrhythmias diagnosis using entropies as features of heart rate variability signal 2011 ,		2
11	Atheromatic-symptomatic vs. asymptomatic classification of carotid ultrasound plaque using a combination of HOS, DWT & texture. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 1488-92	0.9	13
10	Cost-effective and non-invasive automated benign and malignant thyroid lesion classification in 3D contrast-enhanced ultrasound using combination of wavelets and textures: a class of ThyroScan algorithms. <i>Technology in Cancer Research and Treatment</i> , 2011 , 10, 371-80	2.7	92
9	EFFECTS OF MOBILE PHONE RADIATION ON CARDIAC HEALTH. <i>Journal of Mechanics in Medicine and Biology</i> , 2011 , 11, 1241-1253	0.7	6
8	Automatic identification of epileptic and background EEG signals using frequency domain parameters. <i>International Journal of Neural Systems</i> , 2010 , 20, 159-76	6.2	122
7	COMPUTER-BASED IDENTIFICATION OF CATARACT AND CATARACT SURGERY EFFICACY USING OPTICAL IMAGES. <i>Journal of Mechanics in Medicine and Biology</i> , 2009 , 09, 589-607	0.7	4
6	Analysis of EEG signals during epileptic and alcoholic states using AR modeling techniques. <i>Irbm</i> , 2008 , 29, 44-52	4.8	66
5	A Pervasive Design Strategy for Distributed Health Care Systems. <i>Open Medical Informatics Journal</i> , 2008 , 2, 58-69	1	5
4	Non-linear analysis of EEG signals at various sleep stages. <i>Computer Methods and Programs in Biomedicine</i> , 2005 , 80, 37-45	6.9	268
3	Analysis of cardiac signals using spatial filling index and time-frequency domain. <i>BioMedical Engineering OnLine</i> , 2004 , 3, 30	4.1	56

2 Real-time decoding and streaming of DAB audio frames by a user-space program running on a non-real-time OS. *IEEE Transactions on Consumer Electronics*, **2002**, 48, 313-321 4.8

1 Design and features of an intelligent PC-based DAB receiver. *IEEE Transactions on Consumer Electronics*, **2002**, 48, 322-328 4.8 2