

Oliver Faust

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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	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
90	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
89	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
88	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
87	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
86	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
85	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
84	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
83	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 \square algorithms. <i>Technology in Cancer Research and Treatment</i> , 2011 , 10, 371-80	2.7	92
82	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
81	Symptomatic vs. asymptomatic plaque classification in carotid ultrasound. <i>Journal of Medical Systems</i> , 2012 , 36, 1861-71	5.1	90
80	Breast imaging: A survey. <i>World Journal of Clinical Oncology</i> , 2011 , 2, 171-8	2.5	87
79	Analysis of EEG signals during epileptic and alcoholic states using AR modeling techniques. <i>Irbm</i> , 2008 , 29, 44-52	4.8	66
78	Automated detection of sleep apnea from electrocardiogram signals using nonlinear parameters. <i>Physiological Measurement</i> , 2011 , 32, 287-303	2.9	63
77	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
76	DEPRESSION DIAGNOSIS SUPPORT SYSTEM BASED ON EEG SIGNAL ENTROPIES. <i>Journal of Mechanics in Medicine and Biology</i> , 2014 , 14, 1450035	0.7	58
75	Nonlinear Dynamics Measures for Automated EEG-Based Sleep Stage Detection. <i>European Neurology</i> , 2015 , 74, 268-87	2.1	57

74	Application of infrared thermography in computer aided diagnosis. <i>Infrared Physics and Technology</i> , 2014 , 66, 160-175	2.7	57
73	Analysis of cardiac signals using spatial filling index and time-frequency domain. <i>BioMedical Engineering OnLine</i> , 2004 , 3, 30	4.1	56
72	Comprehensive electrocardiographic diagnosis based on deep learning. <i>Artificial Intelligence in Medicine</i> , 2020 , 103, 101789	7.4	55
71	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
70	NONLINEAR ANALYSIS OF PHYSIOLOGICAL SIGNALS: A REVIEW. <i>Journal of Mechanics in Medicine and Biology</i> , 2012 , 12, 1240015	0.7	52
69	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
68	Formal design methods for reliable computer-aided diagnosis: a review. <i>IEEE Reviews in Biomedical Engineering</i> , 2012 , 5, 15-28	6.4	51
67	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
66	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
65	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
64	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
63	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
62	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
61	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
60	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
59	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
58	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
57	Automated ASD detection using hybrid deep lightweight features extracted from EEG signals. <i>Computers in Biology and Medicine</i> , 2021 , 134, 104548	7	18

56	A systematic approach to embedded biomedical decision making. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 108, 656-64	6.9	17
55	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
54	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
53	Towards the systematic development of medical networking technology. <i>Journal of Medical Systems</i> , 2011 , 35, 1431-45	5.1	14
52	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, 4489-92	0.9	13
51	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
50	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
49	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
48	Compressed sampling for heart rate monitoring. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 108, 1191-8	6.9	12
47	Cardiac Arrhythmia Classification Using Electrocardiogram. <i>Journal of Medical Imaging and Health Informatics</i> , 2013 , 3, 448-454	1.2	12
46	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
45	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
44	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
43	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
42	A Systems Approach to Cardiac Health Diagnosis. <i>Journal of Medical Imaging and Health Informatics</i> , 2013 , 3, 261-267	1.2	10
41	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
40	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
39	Automated Arrhythmia Detection Based on RR Intervals. <i>Diagnostics</i> , 2021 , 11,	3.8	10

38	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
37	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
36	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
35	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
34	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
33	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
32	Automated blast cell detection for Acute Lymphoblastic Leukemia diagnosis. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102690	4.9	8
31	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
30	Improving the safety of atrial fibrillation monitoring systems through human verification. <i>Safety Science</i> , 2019 , 118, 881-886	5.8	7
29	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
28	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
27	EFFECTS OF MOBILE PHONE RADIATION ON CARDIAC HEALTH. <i>Journal of Mechanics in Medicine and Biology</i> , 2011 , 11, 1241-1253	0.7	6
26	Transfer learning techniques for medical image analysis: A review. <i>Biocybernetics and Biomedical Engineering</i> , 2022 , 42, 79-107	5.7	6
25	A Comparative Study of Different Entropies for Spectrum Sensing Techniques. <i>Wireless Personal Communications</i> , 2013 , 69, 1719-1733	1.9	5
24	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
23	A Pervasive Design Strategy for Distributed Health Care Systems. <i>Open Medical Informatics Journal</i> , 2008 , 2, 58-69	1	5
22	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
21	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

20	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
19	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
18	ALGORITHM FOR THE DETECTION OF CONGESTIVE HEART FAILURE INDEX. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1740043	0.7	3
17	Cardiac Health Visualization and Diagnosis Using Entropies. <i>Journal of Medical Imaging and Health Informatics</i> , 2013 , 3, 409-416	1.2	3
16	Channel estimation algorithms for OFDM systems. <i>International Journal of Signal and Imaging Systems Engineering</i> , 2012 , 5, 267	3.5	3
15	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
14	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
13	Integrated index for cardiac arrhythmias diagnosis using entropies as features of heart rate variability signal 2011 ,		2
12	Design and features of an intelligent PC-based DAB receiver. <i>IEEE Transactions on Consumer Electronics</i> , 2002 , 48, 322-328	4.8	2
11	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
10	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
9	Ethics of Biomaterials for Implants 2013 , 59-75		1
8	HEART-RATE BASED SLEEP APNEA DETECTION USING ARDUINO. <i>Journal of Mechanics in Medicine and Biology</i> , 2019 , 19, 1940006	0.7	1
7	Heart rate variability for medical decision support systems: A review.. <i>Computers in Biology and Medicine</i> , 2022 , 145, 105407	7	1
6	Automatic Diagnosis of Glaucoma Using Digital Fundus Images 2011 , 207-226		
5	Computer-Aided Diagnosis of Diabetic Retinopathy Stages Using Digital Fundus Images 2011 , 301-317		
4	Real-time decoding and streaming of DAB audio frames by a user-space program running on a non-real-time OS. <i>IEEE Transactions on Consumer Electronics</i> , 2002 , 48, 313-321	4.8	
3	Symptomatic Versus Asymptomatic Plaque Classification in Carotid Ultrasound 2014 , 399-408		

- 2 FORMAL AND MODEL DRIVEN DESIGN OF THE BRIGHT LIGHT THERAPY SYSTEM LUXAMET. *Journal of Mechanics in Medicine and Biology*, **2016**, 16, 1650065 0.7
- 1 Atrial fibrillation detection service validation tool. *Software Impacts*, **2021**, 10, 100117 1.8