

Omer T Inan

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144
papers

2,968
citations

24
h-index

50
g-index

170
ext. papers

3,927
ext. citations

4.1
avg, IF

5.61
L-index

#	Paper	IF	Citations
144	Toward Ubiquitous Blood Pressure Monitoring via Pulse Transit Time: Theory and Practice. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 1879-901	5	437
143	Ballistocardiography and seismocardiography: a review of recent advances. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1414-27	7.2	363
142	Robust neural-network-based classification of premature ventricular contractions using wavelet transform and timing interval features. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 2507-15	5	234
141	Novel Wearable Seismocardiography and Machine Learning Algorithms Can Assess Clinical Status of Heart Failure Patients. <i>Circulation: Heart Failure</i> , 2018 , 11, e004313	7.6	92
140	Ballistocardiogram as Proximal Timing Reference for Pulse Transit Time Measurement: Potential for Cuffless Blood Pressure Monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 2657-64	5	82
139	Weighing Scale-Based Pulse Transit Time is a Superior Marker of Blood Pressure than Conventional Pulse Arrival Time. <i>Scientific Reports</i> , 2016 , 6, 39273	4.9	77
138	Ballistocardiogram: Mechanism and Potential for Unobtrusive Cardiovascular Health Monitoring. <i>Scientific Reports</i> , 2016 , 6, 31297	4.9	74
137	Extracting respiratory information from seismocardiogram signals acquired on the chest using a miniature accelerometer. <i>Physiological Measurement</i> , 2012 , 33, 1643-60	2.9	68
136	Rapid assessment of cardiac contractility on a home bathroom scale. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011 , 15, 864-9		68
135	Novel Methods for Sensing Acoustical Emissions From the Knee for Wearable Joint Health Assessment. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 1581-90	5	61
134	A Wearable Patch to Enable Long-Term Monitoring of Environmental, Activity and Hemodynamics Variables. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016 , 10, 280-8	5.1	58
133	SeismoWatch: Wearable Cuffless Blood Pressure Monitoring Using Pulse Transit Time 2017 , 1,		47
132	Quantifying and Reducing Motion Artifacts in Wearable Seismocardiogram Measurements During Walking to Assess Left Ventricular Health. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1277-1286	5.86	46
131	Ballistocardiogram-Based Approach to Cuffless Blood Pressure Monitoring: Proof of Concept and Potential Challenges. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2384-2391	5	43
130	Wearable Vector Electrical Bioimpedance System to Assess Knee Joint Health. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2353-2360	5	40
129	Toward continuous, noninvasive assessment of ventricular function and hemodynamics: wearable ballistocardiography. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1435-42	7.2	38
128	Neuroimaging and Machine Learning for Dementia Diagnosis: Recent Advancements and Future Prospects. <i>IEEE Reviews in Biomedical Engineering</i> , 2019 , 12, 19-33	6.4	37

127	Performance Analysis of Gyroscope and Accelerometer Sensors for Seismocardiography-Based Wearable Pre-Ejection Period Estimation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 2365-2374	7.2	32
126	Quantifying acute physiological biomarkers of transcutaneous cervical vagal nerve stimulation in the context of psychological stress. <i>Brain Stimulation</i> , 2020 , 13, 47-59	5.1	32
125	Wearable ballistocardiogram and seismocardiogram systems for health and performance. <i>Journal of Applied Physiology</i> , 2018 , 124, 452-461	3.7	29
124	A Robust System for Longitudinal Knee Joint Edema and Blood Flow Assessment Based on Vector Bioimpedance Measurements. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016 , 10, 545-55	5.1	27
123	Novel methods for estimating the ballistocardiogram signal using a simultaneously acquired electrocardiogram. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 5344-47	0.9	26
122	Unobtrusive Estimation of Cardiac Contractility and Stroke Volume Changes Using Ballistocardiogram Measurements on a High Bandwidth Force Plate. <i>Sensors</i> , 2016 , 16,	3.8	25
121	Acoustical Emission Analysis by Unsupervised Graph Mining: A Novel Biomarker of Knee Health Status. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 1291-1300	5	24
120	Automatic Detection of Seismocardiogram Sensor Misplacement for Robust Pre-Ejection Period Estimation in Unsupervised Settings. <i>IEEE Sensors Journal</i> , 2017 , 17, 3805-3813	4	23
119	Adaptive cancellation of floor vibrations in standing ballistocardiogram measurements using a seismic sensor as a noise reference. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 722-7	5	23
118	Quantifying the Consistency of Wearable Knee Acoustical Emission Measurements During Complex Motions. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 1265-72	7.2	22
117	Acoustic Emissions as a Non-invasive Biomarker of the Structural Health of the Knee. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 225-235	4.7	22
116	Comparison of Different Methods for Estimating Cardiac Timings: A Comprehensive Multimodal Echocardiography Investigation. <i>Frontiers in Physiology</i> , 2019 , 10, 1057	4.6	21
115	A mm-Sized Free-Floating Wirelessly Powered Implantable Optical Stimulation Device. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019 , 13, 608-618	5.1	21
114	A Dual-Band Wireless Power Transmission System for Evaluating mm-Sized Implants. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019 , 13, 595-607	5.1	20
113	A novel system identification technique for improved wearable hemodynamics assessment. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 1345-54	5	20
112	A Wearable, Multimodal Sensing System to Monitor Knee Joint Health. <i>IEEE Sensors Journal</i> , 2020 , 20, 10323-10334	4	20
111	Fusing Near-Infrared Spectroscopy with Wearable Hemodynamic Measurements Improves Classification of Mental Stress. <i>IEEE Sensors Journal</i> , 2019 , 19, 8522-8531	4	20
110	Quantifying and Reducing Posture-Dependent Distortion in Ballistocardiogram Measurements. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1549-56	7.2	19

109	Conventional pulse transit times as markers of blood pressure changes in humans. <i>Scientific Reports</i> , 2020 , 10, 16373	4.9	19
108	Robust Longitudinal Ankle Edema Assessment Using Wearable Bioimpedance Spectroscopy. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 1019-1029	5	19
107	Automatic detection of motion artifacts in the ballistocardiogram measured on a modified bathroom scale. <i>Medical and Biological Engineering and Computing</i> , 2011 , 49, 213-20	3.1	18
106	Evaluating the lower-body electromyogram signal acquired from the feet as a noise reference for standing ballistocardiogram measurements. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 1188-96		18
105	Application of Noninvasive Vagal Nerve Stimulation to Stress-Related Psychiatric Disorders. <i>Journal of Personalized Medicine</i> , 2020 , 10,	3.6	17
104	Non-invasive assessment of cardiac contractility on a weighing scale. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 6773-6	0.9	16
103	Universal Pre-Ejection Period Estimation Using Seismocardiography: Quantifying the Effects of Sensor Placement and Regression Algorithms. <i>IEEE Sensors Journal</i> , 2018 , 18, 1665-1674	4	15
102	Non-Contact Sensing of Seismocardiogram Signals Using Microwave Doppler Radar. <i>IEEE Sensors Journal</i> , 2018 , 18, 5956-5964	4	15
101	A Deep Neural Network-Based Permanent Magnet Localization for Tongue Tracking. <i>IEEE Sensors Journal</i> , 2019 , 19, 9324-9331	4	15
100	Preliminary results from BCG and ECG measurements in the heart failure clinic. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3780-3	0.9	15
99	Using Knee Acoustical Emissions for Sensing Joint Health in Patients with Juvenile Idiopathic Arthritis: A Pilot Study. <i>IEEE Sensors Journal</i> , 2018 , 18, 9128-9136	4	15
98	Wearable ballistocardiography: preliminary methods for mapping surface vibration measurements to whole body forces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 5178-5	0.9	14
97	A Unified Framework for Quality Indexing and Classification of Seismocardiogram Signals. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 1080-1092	7.2	14
96	Wearable Cuff-Less Blood Pressure Estimation at Home via Pulse Transit Time. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 1926-1937	7.2	14
95	Quantifying the Effects of Increasing Mechanical Stress on Knee Acoustical Emissions Using Unsupervised Graph Mining. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 594-601	4.8	13
94	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 2492-2501	5.5	13
93	Non-invasive vagal nerve stimulation decreases brain activity during trauma scripts. <i>Brain Stimulation</i> , 2020 , 13, 1333-1348	5.1	13
92	Classification of Decompensated Heart Failure From Clinical and Home Ballistocardiography. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 1303-1313	5	13

91	Seismocardiography-Based Detection of Cardiac Quiescence. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 2025-32	5	12
90	A Proof-of-Concept System to Analyze Joint Sounds in Real Time for Knee Health Assessment in Uncontrolled Settings. <i>IEEE Sensors Journal</i> , 2016 , 16, 2892-2893	4	12
89	Tracking clinical status for heart failure patients using ballistocardiography and electrocardiography signal features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 5188-91	0.9	12
88	Using Ballistocardiography to Monitor Left Ventricular Function in Heart Failure Patients. <i>Journal of Cardiac Failure</i> , 2016 , 22, S45	3.3	11
87	Robust Sensing of Distal Pulse Waveforms on a Modified Weighing Scale for Ubiquitous Pulse Transit Time Measurement. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 765-772	5.1	10
86	Transcutaneous cervical vagal nerve stimulation reduces sympathetic responses to stress in posttraumatic stress disorder: A double-blind, randomized, sham controlled trial. <i>Neurobiology of Stress</i> , 2020 , 13, 100264	7.6	10
85	Reconfigurable analog classifier for knee-joint rehabilitation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 4784-4787	0.9	10
84	Digital Cardiovascular Biomarker Responses to Transcutaneous Cervical Vagus Nerve Stimulation: State-Space Modeling, Prediction, and Simulation. <i>JMIR MHealth and UHealth</i> , 2020 , 8, e20488	5.5	10
83	Wearable Sensors Incorporating Compensatory Reserve Measurement for Advancing Physiological Monitoring in Critically Injured Trauma Patients. <i>Sensors</i> , 2020 , 20,	3.8	10
82	A Glove-Based Form Factor for Collecting Joint Acoustic Emissions: Design and Validation. <i>Sensors</i> , 2019 , 19,	3.8	9
81	Automatic Detection of Target Engagement in Transcutaneous Cervical Vagal Nerve Stimulation for Traumatic Stress Triggers. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 1917-1925	7.2	9
80	High-frequency electrical stimulation of cardiac cells and application to artifact reduction. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 1381-90	5	9
79	2015 ,		9
78	A portable system for monitoring the behavioral activity of <i>Drosophila</i> . <i>Journal of Neuroscience Methods</i> , 2011 , 202, 45-52	3	9
77	. <i>IEEE Sensors Journal</i> , 2020 , 20, 3849-3858	4	9
76	Estimation of Instantaneous Oxygen Uptake During Exercise and Daily Activities Using a Wearable Cardio-Electromechanical and Environmental Sensor. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 634-646	7.2	9
75	Wearable knee health system employing novel physiological biomarkers. <i>Journal of Applied Physiology</i> , 2018 , 124, 537-547	3.7	9
74	Wearable Patch-Based Estimation of Oxygen Uptake and Assessment of Clinical Status during Cardiopulmonary Exercise Testing in Patients With Heart Failure. <i>Journal of Cardiac Failure</i> , 2020 , 26, 948-958	3.3	8

73	A Wearable System for Attenuating Essential Tremor Based on Peripheral Nerve Stimulation. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2020 , 8, 2000111	3	8
72	A proof-of-concept classifier for acoustic signals from the knee joint on a FPAA 2016 ,		8
71	Comparison of autonomic stress reactivity in young healthy versus aging subjects with heart disease. <i>PLoS ONE</i> , 2019 , 14, e0216278	3.7	7
70	Towards robust estimation of systolic time intervals using head-to-foot and dorso-ventral components of sternal acceleration signals 2015 ,		7
69	Timing Considerations for Noninvasive Vagal Nerve Stimulation in Clinical Studies 2019 , 2019, 1061-1070.	0.7	7
68	Transcutaneous vagal nerve stimulation blocks stress-induced activation of Interleukin-6 and interferon- γ in posttraumatic stress disorder: A double-blind, randomized, sham-controlled trial. <i>Brain, Behavior, & Immunity - Health</i> , 2020 , 9, 100138	5.1	7
67	Automated Identification of Persistent Time-Domain Features in Seismocardiogram Signals 2019 ,		7
66	Mitigation of Instrument-Dependent Variability in Ballistocardiogram Morphology: Case Study on Force Plate and Customized Weighing Scale. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 69-78	7.2	7
65	A Globalized Model for Mapping Wearable Seismocardiogram Signals to Whole-Body Ballistocardiogram Signals Based on Deep Learning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 1296-1309	7.2	7
64	A miniaturized video system for monitoring the locomotor activity of walking <i>Drosophila melanogaster</i> in space and terrestrial settings. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 522-4	5	6
63	Knee Acoustic Emissions as a Digital Biomarker of Disease Status in Juvenile Idiopathic Arthritis. <i>Frontiers in Digital Health</i> , 2020 , 2, 571839	2.3	6
62	Enabling the assessment of trauma-induced hemorrhage via smart wearable systems. <i>Science Advances</i> , 2020 , 6, eabb1708	14.3	6
61	Vibration Characterization of the Human Knee Joint in Audible Frequencies. <i>Sensors</i> , 2020 , 20,	3.8	6
60	-Value: A Potential Biomarker for Assessing Knee-Joint Health Using Acoustical Emission Sensing 2018 , 2,		6
59	Photoplethysmography Fast Upstroke Time Intervals Can Be Useful Features for Cuff-Less Measurement of Blood Pressure Changes in Humans. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , PP,	5	6
58	Wearable knee health rehabilitation assessment using acoustical emissions 2017 ,		5
57	A frequency domain analysis of respiratory variations in the seismocardiogram signal. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6881-4	0.9	5
56	Seismocardiography and Machine Learning Algorithms to Assess Clinical Status of Patients with Heart Failure in Cardiopulmonary Exercise Testing. <i>Journal of Cardiac Failure</i> , 2019 , 25, S64-S65	3.3	4

55	Improving the accuracy of proximal timing detection from ballistocardiogram signals using a high bandwidth force plate 2016 ,		4
54	A Novel Accelerometer Mounting Method for Sensing Performance Improvement in Acoustic Measurements From the Knee. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2021 , 143, 031006	1.6	4
53	The Delineation of Fiducial Points for Non-Contact Radar Seismocardiogram Signals Without Concurrent ECG. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 1031-1040	7.2	4
52	Estimating Knee Joint Load Using Acoustic Emissions During Ambulation. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 1000-1011	4.7	4
51	Robust Method for Mid-Activity Tracking and Evaluation of Ankle Health Post-Injury. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1341-1350	5	4
50	. <i>IEEE Sensors Journal</i> , 2021 , 21, 20398-20411	4	4
49	Improved Pre-Ejection Period Estimation From Ballistocardiogram and Electrocardiogram Signals by Fusing Multiple Timing Interval Features. <i>IEEE Sensors Journal</i> , 2017 , 17, 4172-4180	4	3
48	Detecting Suspected Pump Thrombosis in Left Ventricular Assist Devices via Acoustic Analysis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 1899-1906	7.2	3
47	Toward Non-Invasive and Automatic Intravenous Infiltration Detection: Evaluation of Bioimpedance and Skin Strain in a Pig Model. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018 , 6, 4100207	3	3
46	Non-invasive, multi-modal sensing of skin stretch and bioimpedance for detecting infiltration during intravenous therapy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 4755-4758	0.9	3
45	Toward closed-loop transcutaneous vagus nerve stimulation using peripheral cardiovascular physiological biomarkers: A proof-of-concept study 2018 ,		3
44	A novel physiological features-assisted architecture for rapidly distinguishing health problems from hardware Trojan attacks and errors in medical devices 2017 ,		3
43	Quantifying the effects of blood pressure changes on ballistocardiogram signals 2017 ,		3
42	Evaluating the Foot Electromyogram Signal as a Noise Reference for a Bathroom Scale Ballistocardiogram Recorder 2008 ,		3
41	Non-Invasive Wearable Patch Utilizing Seismocardiography for Peri-Operative Use in Surgical Patients. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 1572-1582	7.2	3
40	Real-time activity classification in a wearable system prototype for knee health assessment via joint sounds. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 3113-3116	0.9	3
39	Harnessing the Manifold Structure of Cardiomechanical Signals for Physiological Monitoring During Hemorrhage. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1759-1767	5	3
38	Robust Estimation of Respiratory Variability Uncovers Correlates of Limbic Brain Activity and Transcutaneous Cervical Vagus Nerve Stimulation in the Context of Traumatic Stress. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , PP,	5	3

37	Seismocardiography Can Assess Cardiopulmonary Exercise Test Parameters in Patients with Heart Failure. <i>Journal of Cardiac Failure</i> , 2018 , 24, S124-S125	3.3	3
36	Accurate Ballistocardiogram Based Heart Rate Estimation Using an Array of Load Cells in a Hospital Bed. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 3373-3383	7.2	3
35	Reducing the Impact of External Vibrations on Fiducial Point Detection in Seismocardiogram Signals. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , PP,	5	3
34	Proof-of-concept energy-efficient and real-time hemodynamic feature extraction from bioimpedance signals using a mixed-signal field programmable analog array 2017 ,		2
33	Modeling Consistent Dynamics of Cardiogenic Vibrations in Low-Dimensional Subspace. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 1887-1898	7.2	2
32	VibroCV: a computer vision-based vibroarthrography platform with possible application to Juvenile Idiopathic Arthritis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 1181-1184	0.9	2
31	Sternal vibrations during head-out immersion: A preliminary demonstration of underwater wearable ballistocardiography. <i>Journal of the Acoustical Society of America</i> , 2015 , 138, EL342-6	2.2	2
30	Estimation of Changes in Intracardiac Hemodynamics Using Wearable Seismocardiography and Machine Learning in Patients with Heart Failure: A Feasibility Study.. <i>IEEE Transactions on Biomedical Engineering</i> , 2022 , PP,	5	2
29	Machine learning to extract muscle fascicle length changes from dynamic ultrasound images in real-time. <i>PLoS ONE</i> , 2021 , 16, e0246611	3.7	2
28	Detection of Meniscal Tear Effects on Tibial Vibration Using Passive Knee Sound Measurements. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 2241-2250	5	2
27	Change Point Detection in Knee Acoustic Emissions using the Teager Operator: A Preliminary Study in Patients with Juvenile Idiopathic Arthritis 2019 ,		2
26	Fit to Burst: Toward Noninvasive Estimation of Achilles Tendon Load Using Burst Vibrations. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 470-481	5	2
25	Securing Medical Devices Against Hardware Trojan Attacks Through Analog-, Digital-, and Physiological-Based Signatures. <i>Journal of Hardware and Systems Security</i> , 2018 , 2, 251-265	1.6	2
24	Quantifying Rheumatoid Arthritis Disease Activity using a Multimodal Sensing Knee Brace. <i>IEEE Transactions on Biomedical Engineering</i> , 2022 , 1-1	5	2
23	Assessment of Calibration Models for Cuff-Less Blood Pressure Measurement After One Year of Aging.. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , PP,	5	1
22	Transcutaneous Cervical Vagal Nerve Stimulation Reduces Sympathetic Responses to Stress in Posttraumatic Stress Disorder		1
21	Effect of transcutaneous cervical vagus nerve stimulation on the pituitary adenylate cyclase-activating polypeptide (PACAP) response to stress: A randomized, sham controlled, double blind pilot study. <i>Comprehensive Psychoneuroendocrinology</i> , 2020 , 4, 100012	1.1	1
20	Localizing Placement of Cardiomechanical Sensors during Dynamic Periods via Template Matching. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 473-476	0.9	1

19	Inertial Measurements for Tongue Motion Tracking Based on Magnetic Localization with Orientation Compensation. <i>IEEE Sensors Journal</i> , 2021 , 21, 7964-7971	4	1
18	An Interpretable Experimental Data Augmentation Method to Improve Knee Health Classification Using Joint Acoustic Emissions. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 2399-2411	4.7	1
17	Quantifying Signal Quality for Joint Acoustic Emissions Using Graph-Based Spectral Embedding. <i>IEEE Sensors Journal</i> , 2021 , 21, 13676-13684	4	1
16	Noninvasive Cervical Vagal Nerve Stimulation Alters Brain Activity During Traumatic Stress in Individuals With Posttraumatic Stress Disorder. <i>Psychosomatic Medicine</i> , 2021 , 83, 969-977	3.7	1
15	Transcutaneous Cervical Vagus Nerve Stimulation Lengthens Exhalation in the Context of Traumatic Stress 2021 ,		1
14	Enabling Wearable Pulse Transit Time-Based Blood Pressure Estimation for Medically Underserved Areas and Health Equity: Comprehensive Evaluation Study. <i>JMIR MHealth and UHealth</i> , 2021 , 9, e27466	5.5	1
13	Unifying the Estimation of Blood Volume Decompensation Status in a Porcine Model of Relative and Absolute Hypovolemia Via Wearable Sensing. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 3351-3360	7.2	1
12	Transcutaneous Cervical Vagal Nerve Stimulation in Patients with Posttraumatic Stress Disorder (PTSD): A Pilot Study of Effects on PTSD Symptoms and Interleukin-6 Response to Stress. <i>Journal of Affective Disorders Reports</i> , 2021 , 6, 100190-100190	1.4	1
11	Vibration Stimulation as a Non-Invasive Approach to Monitor the Severity of Meniscus Tears. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021 , 29, 350-359	4.8	1
10	An Integrated Multimodal Knee Brace Enabling Mid-Activity Tracking for Joint Health Assessment. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 7364-7368	0.9	0
9	Validation of a new impedance cardiography analysis algorithm for clinical classification of stress states.. <i>Psychophysiology</i> , 2022 , e14013	4.1	0
8	Acoustic Emissions From Loaded and Unloaded Knees to Assess Joint Health in Patients With Juvenile Idiopathic Arthritis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 3618-3626	7.2	0
7	Transcutaneous Cervical Vagus Nerve Stimulation Inhibits the Reciprocal of the Pulse Transit Time Responses to Traumatic Stress in Posttraumatic Stress Disorder. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 1444-1447	0.9	0
6	Physiological closed-loop control in critical care: opportunities for innovations. <i>Progress in Biomedical Engineering</i> , 2022 , 4, 033001	7.2	0
5	Noninvasive Multimodal Physiological Sensing Systems: Design, Implementation and Validation 2021 ,		
4	Use of Ballistocardiography to Monitor Cardiovascular Hemodynamics in Preeclampsia. <i>Women S Health Reports</i> , 2021 , 2, 97-105	0.5	
3	Evaluation of a Wireless Tongue Tracking System on the Identification of Phoneme Landmarks. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1190-1197	5	
2	Novel Noninvasive Biosensors and Artificial Intelligence for Optimized Heart Failure Management.. <i>JACC Basic To Translational Science</i> , 2022 , 7, 316-318	8.7	

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Automatic Subject Identification Using Scale-Based Ballistocardiogram Signals. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2022**, 281-292

0.2