Kouhyar Tavakolian

List of Publications by Year in Descending Order

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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.

48
papers

1,178
citations

17
h-index

33
g-index

58
ext. papers

2,466
ext. citations

3
citations

1,466
avg, IF

L-index

#	Paper	IF	Citations
48	Detecting Coronary Artery Disease Using Rest Seismocardiography and Gyrocardiography <i>Frontiers in Physiology</i> , 2021 , 12, 758727	4.6	O
47	The repeatability of estimated systolic time intervals in healthy subjects using seismocardiogram and electrocardiogram. <i>Physiological Measurement</i> , 2020 , 41, 02NT01	2.9	3
46	Cardio-postural interactions and muscle-pump baroreflex are severely impacted by 60-day bedrest immobilization. <i>Scientific Reports</i> , 2020 , 10, 12042	4.9	4
45	Comparison of Different Methods for Estimating Cardiac Timings: A Comprehensive Multimodal Echocardiography Investigation. <i>Frontiers in Physiology</i> , 2019 , 10, 1057	4.6	21
44	Cardiac Mechanical Signals. Series in Bioengineering, 2019 , 63-79	0.7	1
43	Relationship between Ischemic Stroke and Pulse Rate Variability as a Surrogate of Heart Rate Variability. <i>Brain Sciences</i> , 2019 , 9,	3.4	6
42	Effect of Aging on Muscle-Pump Baroreflex of Individual Leg Muscles During Standing. <i>Frontiers in Physiology</i> , 2019 , 10, 845	4.6	6
41	Identifying Patients With Coronary Artery Disease Using Rest and Exercise Seismocardiography. <i>Frontiers in Physiology</i> , 2019 , 10, 1211	4.6	3
40	Comparison of Autonomic Control of Blood Pressure During Standing and Artificial Gravity Induced via Short-Arm Human Centrifuge. <i>Frontiers in Physiology</i> , 2018 , 9, 712	4.6	14
39	Analyzing Seismocardiogram Cycles to Identify the Respiratory Phases. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1786-1792	5	34
38	A Hidden Markov Model for Seismocardiography. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2361-2372	5	26
37	Skeletal Muscle Pump Drives Control of Cardiovascular and Postural Systems. <i>Scientific Reports</i> , 2017 , 7, 45301	4.9	22
36	Significant role of the cardiopostural interaction in blood pressure regulation during standing. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H568-H577	5.2	11
35	Automatic and Robust Delineation of the Fiducial Points of the Seismocardiogram Signal for Non-invasive Estimation of Cardiac Time Intervals. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1701-1710	5	42
34	Non-linear Heart Rate and Blood Pressure Interaction in Response to Lower-Body Negative Pressure. <i>Frontiers in Physiology</i> , 2017 , 8, 767	4.6	8
33	Vertical ground reaction force marker for Parkinsond disease. <i>PLoS ONE</i> , 2017 , 12, e0175951	3.7	49
32	A review of methods and applications of brain computer interface systems 2016,		8

31	Tremor quantification of Parkinsond disease - a pilot study 2016 ,		11
30	Neurocognitive deficits observed on high school football players with history of concussion: A preliminary study 2016 ,		1
29	Analysis of causal cardio-postural interaction under orthostatic stress using convergent cross mapping. <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, 2319-2322	0.9 <u>2</u>	4
28	Toward Hand Arthritis Diagnostics Using Smart Phones: Camera Distortion Effect Correction1. Journal of Medical Devices, Transactions of the ASME, 2016, 10,	1.3	1
27	Fusion of Electrocardiogram and Accelerocardiogram Derived Respiration Methods for Estimation of Respiratory Phases. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016 , 10,	1.3	1
26	Accurate and consistent automatic seismocardiogram annotation without concurrent ECG. <i>Physiological Measurement</i> , 2016 , 37, 1588-604	2.9	14
25	Systolic Time Intervals and New Measurement Methods. <i>Cardiovascular Engineering and Technology</i> , 2016 , 7, 118-25	2.2	36
24	Detection and classification of acne lesions in acne patients: A mobile application 2016,		22
23	Ballistocardiography and seismocardiography: a review of recent advances. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1414-27	7.2	363
22	Preliminary Results for Estimating Pulse Transit Time Using Seismocardiogram1. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2015 , 9,	1.3	9
21	Identification of respiratory phases using seismocardiogram: A machine learning approach 2015,		5
20	Pulse transit time extraction from Seismocardiogram and its relationship with pulse pressure 2015 ,		8
19	Accurate and consistent automatic seismocardiogram annotation without concurrent ECG 2015,		3
18	Using electromechanical signals recorded from the body for respiratory phase detection and respiratory time estimation: A comparative study 2015 ,		5
17	Automatic annotation of seismocardiogram with high-frequency precordial accelerations. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1428-34	7.2	54
16	Assessment of respiratory flow and efforts using upper-body acceleration. <i>Medical and Biological Engineering and Computing</i> , 2014 , 52, 653-61	3.1	10
15	Precordial vibrations provide noninvasive detection of early-stage hemorrhage. <i>Shock</i> , 2014 , 41, 91-6	3.4	37
14	Seismocardiography: past, present and future. <i>Annual International Conference of the IEEE</i> Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013 , 2013, 7004-7	0.9	75

13	Seismocardiographic adjustment of diastolic timed vibrations. <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, 3797-800	0.9	8
12	Myocardial contractility: a seismocardiography approach. Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012 , 2012, 3801-4	0.9	21
11	Monitoring torso acceleration for estimating the respiratory flow and efforts for sleep apnea detection. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 6345-8	0.9	8
10	Mechanisms Underlying Isovolumic Contraction and Ejection Peaks in Seismocardiogram Morphology. <i>Journal of Medical and Biological Engineering</i> , 2012 , 32, 103-110	2.2	31
9	Evaluation of a novel integrated sensor system for synchronous measurement of cardiac vibrations and cardiac potentials. <i>Journal of Medical Systems</i> , 2011 , 35, 445-55	5.1	13
8	Validation of respiratory signal derived from suprasternal notch acceleration for sleep apnea detection. <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, 3824-7	0.9	17
7	Infrasonic cardiac signals: complementary windows to cardiovascular dynamics. <i>Annual</i> International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011 , 2011, 4275-8	0.9	14
6	Mechanically flexible wireless multisensor platform for human physical activity and vitals monitoring. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2010 , 4, 281-94	5.1	70
5	Comparative analysis of seismocardiogram waves with the ultra-low frequency ballistocardiogram. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 2851-4	0.9	13
4	Comparative analysis of three different modalities for characterization of the seismocardiogram. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009 , 2009, 2899-903	0.9	17
3	Improvement of ballistocardiogram processing by inclusion of respiration information. <i>Physiological Measurement</i> , 2008 , 29, 771-81	2.9	36
2	Development of a novel contactless mechanocardiograph device. <i>International Journal of Telemedicine and Applications</i> , 2008 , 436870	2.6	11
1	Radar mechanocardiography: a novel analysis of the mechanical behavior of the heart. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 4863-6	0.9	1