

Kwang Suk Park

List of Publications by Citations

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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.

106
papers

2,397
citations

29
h-index

45
g-index

130
ext. papers

2,968
ext. citations

3.8
avg. IF

5.1
L-index

#	Paper	IF	Citations
106	ECG recording on a bed during sleep without direct skin-contact. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 718-25	5	161
105	ECG measurement on a chair without conductive contact. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 956-9	5	153
104	A smart health monitoring chair for nonintrusive measurement of biological signals. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 150-8		127
103	Flexible capacitive electrodes for minimizing motion artifacts in ambulatory electrocardiograms. <i>Sensors</i> , 2014 , 14, 14732-43	3.8	72
102	Nonconstrained sleep monitoring system and algorithms using air-mattress with balancing tube method. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 147-56		67
101	Non-constrained monitoring of systolic blood pressure on a weighing scale. <i>Physiological Measurement</i> , 2009 , 30, 679-93	2.9	64
100	Automatic Classification of Tremor Severity in Parkinson's Disease Using a Wearable Device. <i>Sensors</i> , 2017 , 17,	3.8	62
99	Nonintrusive biological signal monitoring in a car to evaluate a driver's stress and health state. <i>Telemedicine Journal and E-Health</i> , 2009 , 15, 182-9	5.9	56
98	Slow-wave sleep estimation on a load-cell-installed bed: a non-constrained method. <i>Physiological Measurement</i> , 2009 , 30, 1163-70	2.9	54
97	A new approach for non-intrusive monitoring of blood pressure on a toilet seat. <i>Physiological Measurement</i> , 2006 , 27, 203-11	2.9	54
96	Monitoring physiological signals using nonintrusive sensors installed in daily life equipment. <i>Biomedical Engineering Letters</i> , 2011 , 1, 11-20	3.6	52
95	Estimation of Thermal Sensation Based on Wrist Skin Temperatures. <i>Sensors</i> , 2016 , 16, 420	3.8	52
94	An amplitude-modulated visual stimulation for reducing eye fatigue in SSVEP-based brain-computer interfaces. <i>Clinical Neurophysiology</i> , 2014 , 125, 1380-91	4.3	50
93	Nocturnal awakening and sleep efficiency estimation using unobtrusively measured ballistocardiogram. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 131-8	5	49
92	An Investigation Into the Use of Geiger-Mode Solid-State Photomultipliers for Simultaneous PET and MRI Acquisition. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 882-888	1.7	49
91	Eliciting dual-frequency SSVEP using a hybrid SSVEP-P300 BCI. <i>Journal of Neuroscience Methods</i> , 2016 , 258, 104-13	3	48
90	The effect of missing RR-interval data on heart rate variability analysis in the frequency domain. <i>Physiological Measurement</i> , 2009 , 30, 1039-50	2.9	46

89	Unconstrained sleep apnea monitoring using polyvinylidene fluoride film-based sensor. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 2125-34	5	42
88	CNT/PDMS-based canal-typed ear electrodes for inconspicuous EEG recording. <i>Journal of Neural Engineering</i> , 2014 , 11, 046014	5	42
87	A Novel Wearable Forehead EOG Measurement System for Human Computer Interfaces. <i>Sensors</i> , 2017 , 17,	3.8	41
86	Thin and flexible active electrodes with shield for capacitive electrocardiogram measurement. <i>Medical and Biological Engineering and Computing</i> , 2010 , 48, 447-57	3.1	39
85	Heart Rate Variability Monitoring during Sleep Based on Capacitively Coupled Textile Electrodes on a Bed. <i>Sensors</i> , 2015 , 15, 11295-311	3.8	38
84	Non-constraining sleep/wake monitoring system using bed actigraphy. <i>Medical and Biological Engineering and Computing</i> , 2007 , 45, 107-14	3.1	37
83	Real-time apnea-hypopnea event detection during sleep by convolutional neural networks. <i>Computers in Biology and Medicine</i> , 2018 , 100, 123-131	7	36
82	Tremor frequency characteristics in Parkinson's disease under resting-state and stress-state conditions. <i>Journal of the Neurological Sciences</i> , 2016 , 362, 272-7	3.2	35
81	Detection of apneic events from single channel nasal airflow using 2nd derivative method. <i>Computer Methods and Programs in Biomedicine</i> , 2008 , 91, 199-207	6.9	34
80	Effect of confounding factors on blood pressure estimation using pulse arrival time. <i>Physiological Measurement</i> , 2008 , 29, 615-24	2.9	34
79	A smartphone-based automatic diagnosis system for facial nerve palsy. <i>Sensors</i> , 2015 , 15, 26756-68	3.8	30
78	Heart rate variability analysis using a ballistocardiogram during Valsalva manoeuvre and post exercise. <i>Physiological Measurement</i> , 2011 , 32, 1239-64	2.9	29
77	Conductive polymer foam surface improves the performance of a capacitive EEG electrode. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 3422-31	5	29
76	A capacitive, biocompatible and adhesive electrode for long-term and cap-free monitoring of EEG signals. <i>Journal of Neural Engineering</i> , 2013 , 10, 036006	5	27
75	The Application of Biosignal Feedback for Reducing Cybersickness from Exposure to a Virtual Environment. <i>Presence: Teleoperators and Virtual Environments</i> , 2008 , 17, 1-16	2.9	27
74	Smart technologies toward sleep monitoring at home. <i>Biomedical Engineering Letters</i> , 2019 , 9, 73-85	3.6	27
73	Concept Verification of Three-Layer DOI Detectors for Small Animal PET. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 912-917	1.7	26
72	Real-Time Automatic Apneic Event Detection Using Nocturnal Pulse Oximetry. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 706-712	5	23

71	Localization of epileptogenic zones in F-18 FDG brain PET of patients with temporal lobe epilepsy using artificial neural network. <i>IEEE Transactions on Medical Imaging</i> , 2000 , 19, 347-55	11.7	23
70	REM sleep estimation based on autonomic dynamics using R-R intervals. <i>Physiological Measurement</i> , 2017 , 38, 631-651	2.9	22
69	Slow-Wave Sleep Estimation for Healthy Subjects and OSA Patients Using R-R Intervals. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 119-128	7.2	21
68	Capacitive measurement of ECG for ubiquitous healthcare. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 2218-27	4.7	21
67	Second Derivative of Photoplethysmography for Estimating Vascular Aging 2007 ,		21
66	Smart ECG Monitoring Patch with Built-in R-Peak Detection for Long-Term HRV Analysis. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2292-301	4.7	20
65	A study on the reproducibility of biometric authentication based on electroencephalogram (EEG) 2013 ,		20
64	REM sleep estimation only using respiratory dynamics. <i>Physiological Measurement</i> , 2009 , 30, 1327-40	2.9	20
63	Physiological Signal Monitoring Bed for Infants Based on Load-Cell Sensors. <i>Sensors</i> , 2016 , 16,	3.8	20
62	Apnea-Hypopnea Index Prediction Using Electrocardiogram Acquired During the Sleep-Onset Period. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 295-301	5	19
61	Brain-computer interfaces using capacitive measurement of visual or auditory steady-state responses. <i>Journal of Neural Engineering</i> , 2013 , 10, 024001	5	19
60	Intelligent system for drowsiness recognition based on ear canal electroencephalography with photoplethysmography and electrocardiography. <i>Information Sciences</i> , 2018 , 453, 302-322	7.7	17
59	The relationship between HRV parameters and stressful driving situation in the real road 2007 ,		17
58	Enhancing the Usability of Brain-Computer Interface Systems. <i>Computational Intelligence and Neuroscience</i> , 2019 , 2019, 5427154	3	16
57	Photoplethysmogram measurement without direct skin-to-sensor contact using an adaptive light source intensity control. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009 , 13, 1085-8		16
56	Sleep Period Time Estimation Based on Electrodermal Activity. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 115-122	7.2	13
55	Polyvinylidene fluoride sensor-based method for unconstrained snoring detection. <i>Physiological Measurement</i> , 2015 , 36, 1399-414	2.9	13
54	New predictors of sleep efficiency. <i>Chronobiology International</i> , 2017 , 34, 93-104	3.6	13

53	Reverse-curve-arch-shaped dry EEG electrode for increased skin-electrode contact area on hairy scalps. <i>Electronics Letters</i> , 2015 , 51, 1643-1645	1.1	13
52	Validation of heart rate extraction through an iPhone accelerometer. <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, 5260-3	0.9	13
51	Segmentation of sperms using the strategic Hough transform. <i>Annals of Biomedical Engineering</i> , 1997 , 25, 294-302	4.7	13
50	Proposition of novel classification approach and features for improved real-time arrhythmia monitoring. <i>Computers in Biology and Medicine</i> , 2016 , 75, 190-202	7	12
49	Common mode noise cancellation for electrically non-contact ECG measurement system on a chair. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 5881-3		11
48	Music and natural sounds in an auditory steady-state response based brain-computer interface to increase user acceptance. <i>Computers in Biology and Medicine</i> , 2017 , 84, 45-52	7	10
47	Comparison of pre-amplifier topologies for use in brain-computer interface with capacitively-coupled EEG electrodes. <i>Biomedical Engineering Letters</i> , 2013 , 3, 158-169	3.6	10
46	Wakefulness evaluation during sleep for healthy subjects and OSA patients using a patch-type device. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 155, 127-138	6.9	9
45	Reconstruction of 12-lead ECG Using a Single-patch Device. <i>Methods of Information in Medicine</i> , 2017 , 56, 319-327	1.5	9
44	Estimation of sleep onset latency based on the blood pressure regulatory reflex mechanism. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013 , 17, 534-44	7.2	9
43	Unconstrained Sleep Stage Estimation Based on Respiratory Dynamics and Body Movement. <i>Methods of Information in Medicine</i> , 2016 , 55, 545-555	1.5	9
42	Gait analysis for freezing detection in patients with movement disorder using three dimensional acceleration system		8
41	The association between obstructive sleep apnea during REM sleep and autonomic dysfunction as measured by heart rate variability. <i>Sleep and Breathing</i> , 2019 , 23, 865-871	3.1	7
40	Sleep-Dependent Directional Coupling of Cardiorespiratory System in Patients With Obstructive Sleep Apnea. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2847-2854	5	7
39	The effect of short-term bed-rest on radial pulse in healthy subjects. <i>JAMS Journal of Acupuncture and Meridian Studies</i> , 2014 , 7, 133-9	1.2	7
38	REM Sleep Classification with Respiration Rates 2007 ,		7
37	Heart rate variability changes in major depressive disorder during sleep: Fractal index correlates with BDI score during REM sleep. <i>Psychiatry Research</i> , 2019 , 271, 291-298	9.9	7
36	Multivariate Time-Frequency Analysis of Electrohysterogram for Classification of Term and Preterm Labor. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 897-916	1.4	5

35	Non-contact blink detection glasses utilising transparent conductive film for binary communication. <i>Electronics Letters</i> , 2015 , 51, 382-384	1.1	5
34	Clinicians' Tendencies to Under-Rate Parkinsonian Tremors in the Less Affected Hand. <i>PLoS ONE</i> , 2015 , 10, e0131703	3.7	5
33	Effectiveness of thigh-to-thigh current path for the measurement of abdominal fat in bioelectrical impedance analysis. <i>Medical and Biological Engineering and Computing</i> , 2009 , 47, 1265-71	3.1	5
32	Human Heart Rhythms Synchronize While Co-sleeping. <i>Frontiers in Physiology</i> , 2019 , 10, 190	4.6	5
31	Long Short-Term Memory Networks for Unconstrained Sleep Stage Classification Using Polyvinylidene Fluoride Film Sensor. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 3606-3615	7.2	4
30	Effect of Closed-Loop Vibration Stimulation on Heart Rhythm during Naps. <i>Sensors</i> , 2019 , 19,	3.8	4
29	ECG, EOG detection from helmet based system 2007 ,		4
28	Photoplethysmographic signals to predict the success of lumbar sympathetic blockade for lower extremity pain. <i>Journal of International Medical Research</i> , 2014 , 42, 938-48	1.4	3
27	Capacitive-Coupled ECG Measurement and Its Applications for Ubiquitous Healthcare 2007 ,		3
26	Unconstrained Heart Rate Estimation System in Bed 2007 ,		3
25	A home-based bedside monitoring system of ECG via bluetooth protocol		3
24	Electrocardiogram authentication method robust to dynamic morphological conditions. <i>IET Biometrics</i> , 2019 , 8, 401-410	2.9	3
23	Hybrid CNN-LSTM Network for Real-Time Apnea-Hypopnea Event Detection Based on IR-UWB Radar. <i>IEEE Access</i> , 2021 , 1-1	3.5	3
22	Apnea-hypopnea index prediction through an assessment of autonomic influence on heart rate in wakefulness. <i>Physiology and Behavior</i> , 2017 , 169, 9-15	3.5	2
21	Heart sounds measurement using PVDF film sensor and their comparison with RR intervals of ECG signals 2012 ,		2
20	A new approach of unconstrained sleep monitoring and pulse arrival time extraction using PPG pillow and CC-ECG electrode system 2009 ,		2
19	Indoor Activity Monitoring System Using an Accelerometer and Zigbee 2007 ,		2
18	Mechanocardiogram Measured at the Back of Subjects Sitting in a Chair as a Non-intrusive Pre-ejection Period Measurement 2006 ,		2

17	Comparison between Subjective Scoring and Computer-Based Asymmetry Assessment in Facial Nerve Palsy. <i>Journal of Audiology and Otology</i> , 2019 , 23, 53-58	1.3	2
16	Unobtrusive Photoplethysmographic Monitoring Under the Foot Sole while in a Standing Posture. <i>Sensors</i> , 2018 , 18,	3.8	2
15	Use of finite element analysis to optimize probe design for double sensor method-based thermometer. <i>Journal of Thermal Biology</i> , 2015 , 52, 67-74	2.9	1
14	Measuring skin conductance over clothes. <i>Medical and Biological Engineering and Computing</i> , 2012 , 50, 1155-61	3.1	1
13	Development of remote diagnosis system integrating digital telemetry for medicine		1
12	A neural network classifier for the automatic interpretation of epileptogenic zones in F-18FDG brain PET		1
11	Weak closed-loop vibrational stimulation improves the depth of slow-wave sleep and declarative memory consolidation. <i>Sleep</i> , 2021 , 44,	1.1	1
10	Association of heart rate variability with REM sleep without atonia in idiopathic REM sleep behavior disorder. <i>Journal of Clinical Sleep Medicine</i> , 2021 , 17, 461-469	3.1	1
9	Ballistocardiography 2018 , 127-155		1
8	Automatic Sleep stage Scoring Using Hybrid Neural Network and Rule-based Expert Reasoning. <i>Journal of Korean Society of Medical Informatics</i> , 2000 , 6, 79		0
7	Validation of non-invasive brain temperature estimation models during swine therapeutic hypothermia. <i>Physiological Measurement</i> , 2019 , 40, 025004	2.9	0
6	Changes in physiological network connectivity of body system in narcolepsy during REM sleep. <i>Computers in Biology and Medicine</i> , 2021 , 136, 104762	7	0
5	Nonintrusive measurement of biological signals for ubiquitous healthcare. <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, 6573-5	0.9	
4	Segmentation by evolution for visualization of the lower extremity of the Visible Man. <i>Journal of Digital Imaging</i> , 2001 , 14, 211-3	5.3	
3	A Study on the Non-gaussian Properties of Sleep EEG. <i>Journal of Korean Society of Medical Informatics</i> , 1997 , 3, 215		
2	Development of Home Health Monitoring System using Digital Telemetry. <i>Journal of Korean Society of Medical Informatics</i> , 1997 , 3, 125		
1	Training Simulator Using Virtual Reality For Postural Balance Rehabilitation. <i>Journal of Korean Society of Medical Informatics</i> , 1998 , 4, 123		