Jinseok Lee

List of Publications by Year
in descending order

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86	2,397	304743 22	223800 46
papers	citations	h-index	g-index

92	92	92	3223
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physiological Parameter Monitoring from Optical Recordings With a Mobile Phone. IEEE Transactions on Biomedical Engineering, 2012, 59, 303-306.	4.2	394
2	A novel application for the detection of an irregular pulse using an iPhone 4S in patients with atrial fibrillation. Heart Rhythm, 2013, 10, 315-319.	0.7	229
3	COVID-19 Pneumonia Diagnosis Using a Simple 2D Deep Learning Framework With a Single Chest CT Image: Model Development and Validation. Journal of Medical Internet Research, 2020, 22, e19569.	4.3	208
4	Atrial Fibrillation Detection Using an iPhone 4S. IEEE Transactions on Biomedical Engineering, 2013, 60, 203-206.	4.2	205
5	Automatic Motion and Noise Artifact Detection in Holter ECG Data Using Empirical Mode Decomposition and Statistical Approaches. IEEE Transactions on Biomedical Engineering, 2012, 59, 1499-1506.	4.2	122
6	Time-Varying Coherence Function for Atrial Fibrillation Detection. IEEE Transactions on Biomedical Engineering, 2013, 60, 2783-2793.	4.2	84
7	Sleep Monitoring Based on a Tri-Axial Accelerometer and a Pressure Sensor. Sensors, 2016, 16, 750.	3.8	82
8	Reflectance pulse oximetry: Practical issues and limitations. ICT Express, 2016, 2, 195-198.	4.8	65
9	An Artificial Intelligence Model to Predict the Mortality of COVID-19 Patients at Hospital Admission Time Using Routine Blood Samples: Development and Validation of an Ensemble Model. Journal of Medical Internet Research, 2020, 22, e25442.	4.3	64
10	Respiratory Rate Estimation from the Built-in Cameras of Smartphones and Tablets. Annals of Biomedical Engineering, 2014, 42, 885-898.	2.5	56
11	Motion Artifact Cancellation in Wearable Photoplethysmography Using Gyroscope. IEEE Sensors Journal, 2019, 19, 1166-1175.	4.7	50
12	Wearable Multichannel Photoplethysmography Framework for Heart Rate Monitoring During Intensive Exercise. IEEE Sensors Journal, 2018, 18, 2983-2993.	4.7	48
13	Automatic Lung Segmentation With Juxta-Pleural Nodule Identification Using Active Contour Model and Bayesian Approach. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-13.	3.7	48
14	Finite State Machine Framework for Instantaneous Heart Rate Validation Using Wearable Photoplethysmography During Intensive Exercise. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1595-1606.	6.3	45
15	An Autoregressive Model-Based Particle Filtering Algorithms for Extraction of Respiratory Rates as High as 90 Breaths Per Minute From Pulse Oximeter. IEEE Transactions on Biomedical Engineering, 2010, 57, 2158-2167.	4.2	37
16	Time-Varying Autoregressive Model-Based Multiple Modes Particle Filtering Algorithm for Respiratory Rate Extraction From Pulse Oximeter. IEEE Transactions on Biomedical Engineering, 2011, 58, 790-794.	4.2	34
17	Respiratory Rate Extraction Via an Autoregressive Model Using the Optimal Parameter Search Criterion. Annals of Biomedical Engineering, 2010, 38, 3218-3225.	2.5	29
18	High-Resolution Time-Frequency Spectrum-Based Lung Function Test from a Smartphone Microphone. Sensors, 2016, 16, 1305.	3.8	27

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19	Prediction and Feature Importance Analysis for Severity of COVID-19 in South Korea Using Artificial Intelligence: Model Development and Validation. Journal of Medical Internet Research, 2021, 23, e27060.	4.3	27
20	Dedicated cardiac rehabilitation wearable sensor and its clinical potential. PLoS ONE, 2017, 12, e0187108.	2.5	27
21	Automated System for Identifying COVID-19 Infections in Computed Tomography Images Using Deep Learning Models. Journal of Healthcare Engineering, 2022, 2022, 1-13.	1.9	27
22	Respiratory rate extraction from pulse oximeter and electrocardiographic recordings. Physiological Measurement, 2011, 32, 1763-1773.	2.1	26
23	Graphite Based Electrode for ECG Monitoring: Evaluation under Freshwater and Saltwater Conditions. Sensors, 2016, 16, 542.	3.8	26
24	A Comparative Evaluation of Atrial Fibrillation Detection Methods in Koreans Based on Optical Recordings Using a Smartphone. IEEE Access, 2017, 5, 11437-11443.	4.2	26
25	Deep Learning for Heart Rate Estimation From Reflectance Photoplethysmography With Acceleration Power Spectrum and Acceleration Intensity. IEEE Access, 2020, 8, 63390-63402.	4.2	26
26	New Potential Functions with Random Force Algorithms Using Potential Field Method. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 66, 303-319.	3.4	21
27	Atrial flutter and atrial tachycardia detection using Bayesian approach with high resolution timeâ€“frequency spectrum from ECG recordings. Biomedical Signal Processing and Control, 2013, 8, 992-999.	5.7	20
28	Feasible Study on Intracranial Hemorrhage Detection and Classification using a CNN-LSTM Network. , 2020, 2020, 1290-1293.		20
29	Conformable, Thin, and Dry Electrode for Electrocardiography Using Composite of Silver Nanowires and Polyvinyl Butyral. Electronic Materials Letters, 2019, 15, 267-277.	2.2	18
30	Atrial fibrillation detection using a smart phone. , 2012, 2012, 1177-80.		16
31	Smartphone-Based Cardiac Rehabilitation Program: Feasibility Study. PLoS ONE, 2016, 11, e0161268.	2.5	16
32	Wearable Photoplethysmographic Sensor based on Different LED Light Intensities. IEEE Sensors Journal, 2016, , 1-1.	4.7	15
33	Remote Pulmonary Function Test Monitoring in Cloud Platform via Smartphone Built-in Microphone. Evolutionary Bioinformatics, 2019, 15, 117693431988890.	1.2	15
34	Accuracy of Heart Rate Measurement Using Smartphones During Treadmill Exercise in Male Patients With Ischemic Heart Disease. Annals of Rehabilitation Medicine, 2017, 41, 129.	1.6	14
35	Atrial Fibrillation detection using time-varying coherence function and Shannon Entropy. , 2011, 2011, 4685-8.		13
36	Motion Artifact Identification and Removal From Wearable Reflectance Photoplethysmography Using Piezoelectric Transducer. IEEE Sensors Journal, 2019, 19, 3861-3870.	4.7	13

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37	Patient-Provider Interaction System for Efficient Home-Based Cardiac Rehabilitation Exercise. IEEE Access, 2019, 7, 14611-14622.	4.2	13
38	Design Methodology for Domain Specific Parameterizable Particle Filter Realizations. IEEE Transactions on Circuits and Systems I: Regular Papers, 2007, 54, 1987-2000.	5.4	12
39	Artificialâ€intelligenceâ€driven discovery of prognostic biomarker for sarcopenia. Journal of Cachexia, Sarcopenia and Muscle, 2021, 12, 2220-2230.	7.3	11
40	Random force based algorithm for local minima escape of potential field method. , 2010, , .		10
41	Object Tracking Based on RFID Coverage Visual Compensation in Wireless Sensor Network. , 2007, , .		9
42	Development of a Mini-Mobile Digital Radiography System by Using Wireless Smart Devices. Journal of Digital Imaging, 2014, 27, 443-448.	2.9	9
43	Iterative Object Localization Algorithm Using Visual Images with a Reference Coordinate. Eurasip Journal on Image and Video Processing, 2008, 2008, 1-16.	2.6	8
44	Time-varying Methods for Characterizing Nonstationary Dynamics of Physiological Systems. Methods of Information in Medicine, 2010, 49, 435-442.	1.2	8
45	Analysis of Statistical Methods for Automatic Detection of Congestive Heart Failure and Atrial Fibrillation with Short RR Interval Time Series. , 2015, , .		8
46	Local and Global Information Exchange for Enhancing Object Detection and Tracking. KSII Transactions on Internet and Information Systems, 0, , .	0.3	8
47	Multi-Mode Particle Filtering Methods for Heart Rate Estimation From Wearable Photoplethysmography. IEEE Transactions on Biomedical Engineering, 2019, 66, 2789-2799.	4.2	7
48	Automatic Detection of Congestive Heart Failure and Atrial Fibrillation with Short RR Interval Time Series. Journal of Electrical Engineering and Technology, 2017, 12, 346-355.	2.0	7
49	A Deep Residual U-Net Algorithm for Automatic Detection and Quantification of Ascites on Abdominopelvic Computed Tomography Images Acquired in the Emergency Department: Model Development and Validation. Journal of Medical Internet Research, 2022, 24, e34415.	4.3	7
50	Artificial intelligence to predict in-hospital mortality using novel anatomical injury score. Scientific Reports, 2021, 11, 23534.	3.3	7
51	Acoustic Sensor-Based Multiple Object Tracking with Visual Information Association. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	6
52	State-dependent Gaussian kernel-based power spectrum modification for accurate instantaneous heart rate estimation. PLoS ONE, 2019, 14, e0215014.	2.5	6
53	A head-mounted goggle-type video-oculography system for vestibular function testing. Eurasip Journal on Image and Video Processing, 2018, 2018, .	2.6	5
54	Feasibility Study of Deep Neural Network for Heart Rate Estimation from Wearable Photoplethysmography and Acceleration Signals. , 2019, 2019, 3633-3636.		5

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55	Robot Assisted Instantaneous Heart Rate Estimator using Camera based Remote Photoplethysmograpy via Plane-Orthogonal-to-Skin and Finite State Machine. , 2020, 2020, 4425-4428.		5
56	Gender Bias in Artificial Intelligence: Severity Prediction at an Early Stage of COVID-19. Frontiers in Physiology, 2021, 12, 778720.	2.8	5
57	Tracking an Object in 3-D Space using Particle Filtering based on Sensor Array. , 2006, , .		4
58	Construction of Dynamic Medical Information System for Digital Hospital Environments. Wireless Personal Communications, 2016, 91, 1575-1590.	2.7	4
59	Real-time heart activity monitoring with optical illusion using a smartphone. Multimedia Tools and Applications, 2018, 77, 6209-6224.	3.9	4
60	Analyzing electrocardiogram signals obtained from a nymi band to detect atrial fibrillation. Multimedia Tools and Applications, 2020, 79, 15985-15999.	3.9	4
61	Dedicated mobile volumetric cone-beam computed tomography for human brain imaging: A phantom study. Journal of X-Ray Science and Technology, 2015, 23, 473-480.	1.0	3
62	Real-time realizable mobile imaging photoplethysmography. Scientific Reports, 2022, 12, 7141.	3.3	3
63	Algorithm for Detection with Localization of Multi-targets in Wireless Acoustic Sensor Networks. , 2006, , .		2
64	Local and Global Collaboration for Object Detection Enhancement with Information Redundancy. , 2009, , .		2
65	Corrections to â€œAtrial Fibrillation Detection Using an iPhone 4Sâ€•[Jan 13 203-206]. IEEE Transactions on Biomedical Engineering, 2014, 61, 1914-1914.	4.2	2
66	Simplified 3D Hologram Heart Activity Monitoring Using a Smartphone. , 2015, , .		2
67	A Novel Method for Estimation of Femoral Neck Bone Mineral Density Using Forearm Images from Peripheral Cone Beam Computed Tomography. Applied Sciences (Switzerland), 2016, 6, 113.	2.5	2
68	Scattered image artifacts from cone beam computed tomography and its clinical potential in bone mineral density estimation. SpringerPlus, 2016, 5, 1360.	1.2	2
69	Multiple switching light sources based motion artifacts reduction in reflectance photoplethysmography. , 2016, 2016, 3398-3401.		2
70	Heart activity monitoring using 3D hologram based on smartphone. , 2016, 2016, 5339-5342.		2
71	A TiO₂-Coated Reflective Layer Enhances the Sensitivity of a CsI:Tl Scintillator for X-ray Imaging Sensors. Journal of the Optical Society of Korea, 2014, 18, 256-260.	0.6	2
72	Abstract 55: Detection of Atrial Fibrillation Using a Smartphone Camera. Circulation Research, 2012, 111, .	4.5	2

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73	Passive sensor based dynamic object association method in wireless sensor networks. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	1
74	Multitarget association and tracking in 3-D space based on particle filter with joint multitarget probability density. , 2007, , .		1
75	Passive Sensor Based Multiple Objects Tracking and Association Method in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2009, 5, 596-618.	2.2	1
76	On Addressing Network Synchronization in Object Tracking with Multi-modal Sensors. KSII Transactions on Internet and Information Systems, 2009, 3, 344-365.	0.3	1
77	Algorithm for Detection and Localization of Multi-targets in Wireless Acoustic Sensor Networks. , 2006, , .		0
78	Passive sensor based dynamic object association with particle filtering. , 2007, , .		0
79	Data traffic analysis in wireless fusion network with multiple sensors. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	0
80	Multitarget tracking (MTT) in 3-D using 2-D particle filters with single passive sensor. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	0
81	Adaptation of acoustic sensor orientation based on sensor characteristics for improving tracking performance. , 2008, , .		0
82	Statistical Estimation and Adaptation for Visual Compensation in Object Tracking. International Journal of Distributed Sensor Networks, 2009, 5, 437-462.	2.2	0
83	Asymptotic optimal method for localisation of a target in wireless sensor networks. International Journal of Communication Networks and Distributed Systems, 2009, 3, 36.	0.4	0
84	Performance of mobile digital X-ray fluoroscopy using a novel flat panel detector for intraoperative use. Journal of X-Ray Science and Technology, 2015, 23, 365-372.	1.0	0
85	Object Tracking in 3-D Space with Passive Acoustic Sensors using Particle Filter. KSII Transactions on Internet and Information Systems, 2011, 5, .	0.3	0
86	A Pilot Study on Hip Bone Mineral Densities Estimation from Forearm CBCT images. KSII Transactions on Internet and Information Systems, 2017, 11, .	0.3	0