

# Jinseok Lee

## List of Publications by Year in descending order

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86  
papers

2,397  
citations

304743

22  
h-index

223800

46  
g-index

92  
all docs

92  
docs citations

92  
times ranked

3223  
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Journal of Medical Internet Research</i> , 2022, 24, e34415.	4.3	7
2	Automated System for Identifying COVID-19 Infections in Computed Tomography Images Using Deep Learning Models. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-13.	1.9	27
3	Real-time realizable mobile imaging photoplethysmography. <i>Scientific Reports</i> , 2022, 12, 7141.	3.3	3
4	Prediction and Feature Importance Analysis for Severity of COVID-19 in South Korea Using Artificial Intelligence: Model Development and Validation. <i>Journal of Medical Internet Research</i> , 2021, 23, e27060.	4.3	27
5	Artificial intelligence-driven discovery of prognostic biomarker for sarcopenia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021, 12, 2220-2230.	7.3	11
6	Gender Bias in Artificial Intelligence: Severity Prediction at an Early Stage of COVID-19. <i>Frontiers in Physiology</i> , 2021, 12, 778720.	2.8	5
7	Artificial intelligence to predict in-hospital mortality using novel anatomical injury score. <i>Scientific Reports</i> , 2021, 11, 23534.	3.3	7
8	Analyzing electrocardiogram signals obtained from a nymi band to detect atrial fibrillation. <i>Multimedia Tools and Applications</i> , 2020, 79, 15985-15999.	3.9	4
9	Robot Assisted Instantaneous Heart Rate Estimator using Camera based Remote Photoplethysmography via Plane-Orthogonal-to-Skin and Finite State Machine. , 2020, 2020, 4425-4428.		5
10	Feasible Study on Intracranial Hemorrhage Detection and Classification using a CNN-LSTM Network. , 2020, 2020, 1290-1293.		20
11	Deep Learning for Heart Rate Estimation From Reflectance Photoplethysmography With Acceleration Power Spectrum and Acceleration Intensity. <i>IEEE Access</i> , 2020, 8, 63390-63402.	4.2	26
12	COVID-19 Pneumonia Diagnosis Using a Simple 2D Deep Learning Framework With a Single Chest CT Image: Model Development and Validation. <i>Journal of Medical Internet Research</i> , 2020, 22, e19569.	4.3	208
13	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. <i>Journal of Medical Internet Research</i> , 2020, 22, e25442.	4.3	64
14	Feasibility Study of Deep Neural Network for Heart Rate Estimation from Wearable Photoplethysmography and Acceleration Signals. , 2019, 2019, 3633-3636.		5
15	Multi-Mode Particle Filtering Methods for Heart Rate Estimation From Wearable Photoplethysmography. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2789-2799.	4.2	7
16	State-dependent Gaussian kernel-based power spectrum modification for accurate instantaneous heart rate estimation. <i>PLoS ONE</i> , 2019, 14, e0215014.	2.5	6
17	Motion Artifact Identification and Removal From Wearable Reflectance Photoplethysmography Using Piezoelectric Transducer. <i>IEEE Sensors Journal</i> , 2019, 19, 3861-3870.	4.7	13
18	Conformable, Thin, and Dry Electrode for Electrocardiography Using Composite of Silver Nanowires and Polyvinyl Butyral. <i>Electronic Materials Letters</i> , 2019, 15, 267-277.	2.2	18

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19	Remote Pulmonary Function Test Monitoring in Cloud Platform via Smartphone Built-in Microphone. <i>Evolutionary Bioinformatics</i> , 2019, 15, 117693431988890.	1.2	15
20	Motion Artifact Cancellation in Wearable Photoplethysmography Using Gyroscope. <i>IEEE Sensors Journal</i> , 2019, 19, 1166-1175.	4.7	50
21	Patient-Provider Interaction System for Efficient Home-Based Cardiac Rehabilitation Exercise. <i>IEEE Access</i> , 2019, 7, 14611-14622.	4.2	13
22	Finite State Machine Framework for Instantaneous Heart Rate Validation Using Wearable Photoplethysmography During Intensive Exercise. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 1595-1606.	6.3	45
23	Wearable Multichannel Photoplethysmography Framework for Heart Rate Monitoring During Intensive Exercise. <i>IEEE Sensors Journal</i> , 2018, 18, 2983-2993.	4.7	48
24	A head-mounted goggle-type video-oculography system for vestibular function testing. <i>Eurasip Journal on Image and Video Processing</i> , 2018, 2018, .	2.6	5
25	Real-time heart activity monitoring with optical illusion using a smartphone. <i>Multimedia Tools and Applications</i> , 2018, 77, 6209-6224.	3.9	4
26	Automatic Lung Segmentation With Juxta-Pleural Nodule Identification Using Active Contour Model and Bayesian Approach. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018, 6, 1-13.	3.7	48
27	A Comparative Evaluation of Atrial Fibrillation Detection Methods in Koreans Based on Optical Recordings Using a Smartphone. <i>IEEE Access</i> , 2017, 5, 11437-11443.	4.2	26
28	Dedicated cardiac rehabilitation wearable sensor and its clinical potential. <i>PLoS ONE</i> , 2017, 12, e0187108.	2.5	27
29	Automatic Detection of Congestive Heart Failure and Atrial Fibrillation with Short RR Interval Time Series. <i>Journal of Electrical Engineering and Technology</i> , 2017, 12, 346-355.	2.0	7
30	Accuracy of Heart Rate Measurement Using Smartphones During Treadmill Exercise in Male Patients With Ischemic Heart Disease. <i>Annals of Rehabilitation Medicine</i> , 2017, 41, 129.	1.6	14
31	A Pilot Study on Hip Bone Mineral Densities Estimation from Forearm CBCT images. <i>KSII Transactions on Internet and Information Systems</i> , 2017, 11, .	0.3	0
32	A Novel Method for Estimation of Femoral Neck Bone Mineral Density Using Forearm Images from Peripheral Cone Beam Computed Tomography. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 113.	2.5	2
33	Smartphone-Based Cardiac Rehabilitation Program: Feasibility Study. <i>PLoS ONE</i> , 2016, 11, e0161268.	2.5	16
34	Graphite Based Electrode for ECG Monitoring: Evaluation under Freshwater and Saltwater Conditions. <i>Sensors</i> , 2016, 16, 542.	3.8	26
35	High-Resolution Time-Frequency Spectrum-Based Lung Function Test from a Smartphone Microphone. <i>Sensors</i> , 2016, 16, 1305.	3.8	27
36	Sleep Monitoring Based on a Tri-Axial Accelerometer and a Pressure Sensor. <i>Sensors</i> , 2016, 16, 750.	3.8	82

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37	Scattered image artifacts from cone beam computed tomography and its clinical potential in bone mineral density estimation. SpringerPlus, 2016, 5, 1360.	1.2	2
38	Wearable Photoplethysmographic Sensor based on Different LED Light Intensities. IEEE Sensors Journal, 2016, , 1-1.	4.7	15
39	Reflectance pulse oximetry: Practical issues and limitations. ICT Express, 2016, 2, 195-198.	4.8	65
40	Construction of Dynamic Medical Information System for Digital Hospital Environments. Wireless Personal Communications, 2016, 91, 1575-1590.	2.7	4
41	Multiple switching light sources based motion artifacts reduction in reflectance photoplethysmography. , 2016, 2016, 3398-3401.		2
42	Heart activity monitoring using 3D hologram based on smartphone. , 2016, 2016, 5339-5342.		2
43	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
44	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
45	Simplified 3D Hologram Heart Activity Monitoring Using a Smartphone. , 2015, , .		2
46	Analysis of Statistical Methods for Automatic Detection of Congestive Heart Failure and Atrial Fibrillation with Short RR Interval Time Series. , 2015, , .		8
47	Corrections to "Atrial Fibrillation Detection Using an iPhone 4S" [Jan 13 203-206]. IEEE Transactions on Biomedical Engineering, 2014, 61, 1914-1914.	4.2	2
48	Respiratory Rate Estimation from the Built-in Cameras of Smartphones and Tablets. Annals of Biomedical Engineering, 2014, 42, 885-898.	2.5	56
49	Development of a Mini-Mobile Digital Radiography System by Using Wireless Smart Devices. Journal of Digital Imaging, 2014, 27, 443-448.	2.9	9
50	A TiO <sub>2</sub> -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
51	Time-Varying Coherence Function for Atrial Fibrillation Detection. IEEE Transactions on Biomedical Engineering, 2013, 60, 2783-2793.	4.2	84
52	Atrial flutter and atrial tachycardia detection using Bayesian approach with high resolution time-frequency spectrum from ECG recordings. Biomedical Signal Processing and Control, 2013, 8, 992-999.	5.7	20
53	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
54	Atrial Fibrillation Detection Using an iPhone 4S. IEEE Transactions on Biomedical Engineering, 2013, 60, 203-206.	4.2	205

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55	Atrial fibrillation detection using a smart phone. , 2012, 2012, 1177-80.		16
56	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
57	Physiological Parameter Monitoring from Optical Recordings With a Mobile Phone. IEEE Transactions on Biomedical Engineering, 2012, 59, 303-306.	4.2	394
58	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
59	Abstract 55: Detection of Atrial Fibrillation Using a Smartphone Camera. Circulation Research, 2012, 111, .	4.5	2
60	Respiratory rate extraction from pulse oximeter and electrocardiographic recordings. Physiological Measurement, 2011, 32, 1763-1773.	2.1	26
61	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
62	Atrial Fibrillation detection using time-varying coherence function and Shannon Entropy. , 2011, 2011, 4685-8.		13
63	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
64	Acoustic Sensor-Based Multiple Object Tracking with Visual Information Association. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	6
65	Respiratory Rate Extraction Via an Autoregressive Model Using the Optimal Parameter Search Criterion. Annals of Biomedical Engineering, 2010, 38, 3218-3225.	2.5	29
66	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
67	Time-varying Methods for Characterizing Nonstationary Dynamics of Physiological Systems. Methods of Information in Medicine, 2010, 49, 435-442.	1.2	8
68	Random force based algorithm for local minima escape of potential field method. , 2010, , .		10
69	Statistical Estimation and Adaptation for Visual Compensation in Object Tracking. International Journal of Distributed Sensor Networks, 2009, 5, 437-462.	2.2	0
70	Local and Global Collaboration for Object Detection Enhancement with Information Redundancy. , 2009, , .		2
71	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
72	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

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73	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
74	Adaptation of acoustic sensor orientation based on sensor characteristics for improving tracking performance. , 2008, , .		0
75	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
76	Object Tracking Based on RFID Coverage Visual Compensation in Wireless Sensor Network. , 2007, , .		9
77	Passive sensor based dynamic object association with particle filtering. , 2007, , .		0
78	Data traffic analysis in wireless fusion network with multiple sensors. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	0
79	Passive sensor based dynamic object association method in wireless sensor networks. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	1
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	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
82	Multitarget association and tracking in 3-D space based on particle filter with joint multitarget probability density. , 2007, , .		1
83	Algorithm for Detection with Localization of Multi-targets in Wireless Acoustic Sensor Networks. , 2006, , .		2
84	Algorithm for Detection and Localization of Multi-targets in Wireless Acoustic Sensor Networks. , 2006, , .		0
85	Tracking an Object in 3-D Space using Particle Filtering based on Sensor Array. , 2006, , .		4
86	Local and Global Information Exchange for Enhancing Object Detection and Tracking. KSII Transactions on Internet and Information Systems, 0, , .	0.3	8