

Jinseok Lee

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

2,397
citations

304368

22
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223531

46
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92
all docs

92
docs citations

92
times ranked

3223
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. | 2.5 | 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. | 0.3 | 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. | 2.1 | 208 |
| 4 | Atrial Fibrillation Detection Using an iPhone 4S. IEEE Transactions on Biomedical Engineering, 2013, 60, 203-206. | 2.5 | 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. | 2.5 | 122 |
| 6 | Time-Varying Coherence Function for Atrial Fibrillation Detection. IEEE Transactions on Biomedical Engineering, 2013, 60, 2783-2793. | 2.5 | 84 |
| 7 | Sleep Monitoring Based on a Tri-Axial Accelerometer and a Pressure Sensor. Sensors, 2016, 16, 750. | 2.1 | 82 |
| 8 | Reflectance pulse oximetry: Practical issues and limitations. ICT Express, 2016, 2, 195-198. | 3.3 | 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. | 2.1 | 64 |
| 10 | Respiratory Rate Estimation from the Built-in Cameras of Smartphones and Tablets. Annals of Biomedical Engineering, 2014, 42, 885-898. | 1.3 | 56 |
| 11 | Motion Artifact Cancellation in Wearable Photoplethysmography Using Gyroscope. IEEE Sensors Journal, 2019, 19, 1166-1175. | 2.4 | 50 |
| 12 | Wearable Multichannel Photoplethysmography Framework for Heart Rate Monitoring During Intensive Exercise. IEEE Sensors Journal, 2018, 18, 2983-2993. | 2.4 | 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. | 2.2 | 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. | 3.9 | 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. | 2.5 | 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. | 2.5 | 34 |
| 17 | Respiratory Rate Extraction Via an Autoregressive Model Using the Optimal Parameter Search Criterion. Annals of Biomedical Engineering, 2010, 38, 3218-3225. | 1.3 | 29 |
| 18 | High-Resolution Time-Frequency Spectrum-Based Lung Function Test from a Smartphone Microphone. Sensors, 2016, 16, 1305. | 2.1 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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. | 2.1 | 27 |
| 20 | Dedicated cardiac rehabilitation wearable sensor and its clinical potential. <i>PLoS ONE</i> , 2017, 12, e0187108. | 1.1 | 27 |
| 21 | 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. | 1.1 | 27 |
| 22 | Respiratory rate extraction from pulse oximeter and electrocardiographic recordings. <i>Physiological Measurement</i> , 2011, 32, 1763-1773. | 1.2 | 26 |
| 23 | Graphite Based Electrode for ECG Monitoring: Evaluation under Freshwater and Saltwater Conditions. <i>Sensors</i> , 2016, 16, 542. | 2.1 | 26 |
| 24 | 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. | 2.6 | 26 |
| 25 | Deep Learning for Heart Rate Estimation From Reflectance Photoplethysmography With Acceleration Power Spectrum and Acceleration Intensity. <i>IEEE Access</i> , 2020, 8, 63390-63402. | 2.6 | 26 |
| 26 | New Potential Functions with Random Force Algorithms Using Potential Field Method. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012, 66, 303-319. | 2.0 | 21 |
| 27 | Atrial flutter and atrial tachycardia detection using Bayesian approach with high resolution time-frequency spectrum from ECG recordings. <i>Biomedical Signal Processing and Control</i> , 2013, 8, 992-999. | 3.5 | 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. <i>Electronic Materials Letters</i> , 2019, 15, 267-277. | 1.0 | 18 |
| 30 | Atrial fibrillation detection using a smart phone. , 2012, 2012, 1177-80. | | 16 |
| 31 | Smartphone-Based Cardiac Rehabilitation Program: Feasibility Study. <i>PLoS ONE</i> , 2016, 11, e0161268. | 1.1 | 16 |
| 32 | Wearable Photoplethysmographic Sensor based on Different LED Light Intensities. <i>IEEE Sensors Journal</i> , 2016, , 1-1. | 2.4 | 15 |
| 33 | Remote Pulmonary Function Test Monitoring in Cloud Platform via Smartphone Built-in Microphone. <i>Evolutionary Bioinformatics</i> , 2019, 15, 117693431988890. | 0.6 | 15 |
| 34 | 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. | 0.6 | 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. <i>IEEE Sensors Journal</i> , 2019, 19, 3861-3870. | 2.4 | 13 |

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|----|--|-----|-----------|
| 37 | Patient-Provider Interaction System for Efficient Home-Based Cardiac Rehabilitation Exercise. IEEE Access, 2019, 7, 14611-14622. | 2.6 | 13 |
| 38 | Design Methodology for Domain Specific Parameterizable Particle Filter Realizations. IEEE Transactions on Circuits and Systems I: Regular Papers, 2007, 54, 1987-2000. | 3.5 | 12 |
| 39 | Artificial Intelligence-driven discovery of prognostic biomarker for sarcopenia. Journal of Cachexia, Sarcopenia and Muscle, 2021, 12, 2220-2230. | 2.9 | 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. | 1.6 | 9 |
| 43 | Iterative Object Localization Algorithm Using Visual Images with a Reference Coordinate. Eurasip Journal on Image and Video Processing, 2008, 2008, 1-16. | 1.7 | 8 |
| 44 | Time-varying Methods for Characterizing Nonstationary Dynamics of Physiological Systems. Methods of Information in Medicine, 2010, 49, 435-442. | 0.7 | 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, , . | 0.7 | 8 |
| 47 | Multi-Mode Particle Filtering Methods for Heart Rate Estimation From Wearable Photoplethysmography. IEEE Transactions on Biomedical Engineering, 2019, 66, 2789-2799. | 2.5 | 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. | 1.2 | 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. | 2.1 | 7 |
| 50 | Artificial intelligence to predict in-hospital mortality using novel anatomical injury score. Scientific Reports, 2021, 11, 23534. | 1.6 | 7 |
| 51 | Acoustic Sensor-Based Multiple Object Tracking with Visual Information Association. Eurasip Journal on Advances in Signal Processing, 2010, 2010, . | 1.0 | 6 |
| 52 | State-dependent Gaussian kernel-based power spectrum modification for accurate instantaneous heart rate estimation. PLoS ONE, 2019, 14, e0215014. | 1.1 | 6 |
| 53 | A head-mounted goggle-type video-oculography system for vestibular function testing. Eurasip Journal on Image and Video Processing, 2018, 2018, . | 1.7 | 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 Photoplethysmography 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. | 1.3 | 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. | 1.8 | 4 |
| 59 | Real-time heart activity monitoring with optical illusion using a smartphone. Multimedia Tools and Applications, 2018, 77, 6209-6224. | 2.6 | 4 |
| 60 | Analyzing electrocardiogram signals obtained from a nymi band to detect atrial fibrillation. Multimedia Tools and Applications, 2020, 79, 15985-15999. | 2.6 | 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. | 0.7 | 3 |
| 62 | Real-time realizable mobile imaging photoplethysmography. Scientific Reports, 2022, 12, 7141. | 1.6 | 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 "Atrial Fibrillation Detection Using an iPhone 4S" [Jan 13 203-206]. IEEE Transactions on Biomedical Engineering, 2014, 61, 1914-1914. | 2.5 | 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. | 1.3 | 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 TiO ₂ -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, . | 2.0 | 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. | 1.3 | 1 |
| 76 | On Addressing Network Synchronization in Object Tracking with Multi-modal Sensors. KSII Transactions on Internet and Information Systems, 2009, 3, 344-365. | 0.7 | 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. | 1.3 | 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. | 0.3 | 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. | 0.7 | 0 |
| 85 | Object Tracking in 3-D Space with Passive Acoustic Sensors using Particle Filter. KSII Transactions on Internet and Information Systems, 2011, 5, . | 0.7 | 0 |