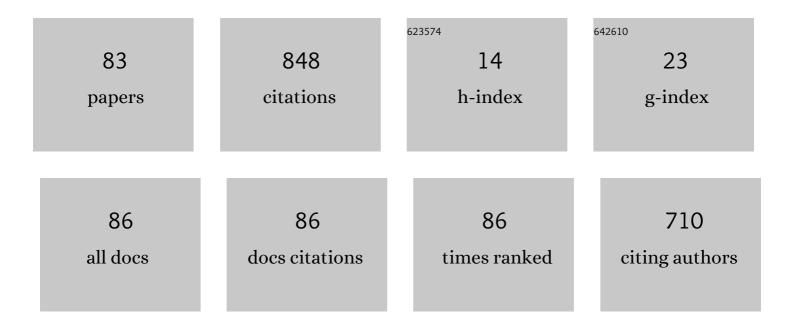
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Remote sensing of multiple vital signs using a CMOS camera-equipped infrared thermography system and its clinical application in rapidly screening patients with suspected infectious diseases. International Journal of Infectious Diseases, 2017, 55, 113-117. | 1.5 | 67 |
| 2 | Contactless Vital Signs Measurement System Using RGB-Thermal Image Sensors and Its Clinical Screening Test on Patients with Seasonal Influenza. Sensors, 2020, 20, 2171. | 2.1 | 57 |
| 3 | An infectious disease/fever screening radar system which stratifies higher-risk patients within ten seconds using a neural network and the fuzzy grouping method. Journal of Infection, 2015, 70, 230-236. | 1.7 | 52 |
| 4 | An Objective Screening Method for Major Depressive Disorder Using Logistic Regression Analysis of Heart Rate Variability Data Obtained in a Mental Task Paradigm. Frontiers in Psychiatry, 2016, 7, 180. | 1.3 | 38 |
| 5 | Multiple Vital-Sign-Based Infection Screening Outperforms Thermography Independent of the Classification Algorithm. IEEE Transactions on Biomedical Engineering, 2016, 63, 1025-1033. | 2.5 | 30 |
| 6 | Non-contact measurement of respiratory and heart rates using a CMOS camera-equipped infrared camera for prompt infection screening at airport quarantine stations. , 2015, , . | | 27 |
| 7 | Non-contact acquisition of respiration and heart rates using Doppler radar with time domain peak-detection algorithm. , 2017, 2017, 2847-2850. | | 27 |
| 8 | Fever screening of seasonal influenza patients using a cost-effective thermopile array with small pixels for close-range thermometry. International Journal of Infectious Diseases, 2014, 25, 56-58. | 1.5 | 26 |
| 9 | Development and Clinical Application of a Novel Autonomic Transient Response-Based Screening System for Major Depressive Disorder Using a Fingertip Photoplethysmographic Sensor. Frontiers in Bioengineering and Biotechnology, 2018, 6, 64. | 2.0 | 26 |
| 10 | A novel infection screening method using a neural network and k-means clustering algorithm which can be applied for screening of unknown or unexpected infectious diseases. Journal of Infection, 2012, 65, 591-592. | 1.7 | 25 |
| 11 | Detection of Fetal ECG R Wave From Single-Lead Abdominal ECG Using a Combination of RR Time-Series Smoothing and Template-Matching Approach. IEEE Access, 2019, 7, 66633-66643. | 2.6 | 25 |
| 12 | Vital-SCOPE: Design and Evaluation of a Smart Vital Sign Monitor for Simultaneous Measurement of Pulse Rate, Respiratory Rate, and Body Temperature for Patient Monitoring. Journal of Sensors, 2018, 2018, 1-7. | 0.6 | 21 |
| 13 | High Accuracy Heartbeat Detection from CW-Doppler Radar Using Singular Value Decomposition and Matched Filter. Sensors, 2021, 21, 3588. | 2.1 | 19 |
| 14 | Applications of Infrared Thermography for Noncontact and Noninvasive Mass Screening of Febrile International Travelers at Airport Quarantine Stations. Series in Bioengineering, 2017, , 347-358. | 0.3 | 17 |
| 15 | Precise Heart Rate Measurement Using Non-contact Doppler Radar Assisted by Machine-Learning-Based Sleep Posture Estimation. , 2019, 2019, 788-791. | | 15 |
| 16 | Twentyâ€fourâ€hour continuous and remote monitoring of respiratory rate using a medical radar system for the early detection of pneumonia in symptomatic elderly bedridden hospitalized patients. Clinical Case Reports (discontinued), 2019, 7, 83-86. | 0.2 | 15 |
| 17 | A medical radar system for non-contact vital sign monitoring and clinical performance evaluation in hospitalized older patients. Biomedical Signal Processing and Control, 2022, 75, 103597. | 3.5 | 15 |
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Non-Contact Blood Pressure Measurement Scheme Using Doppler Radar. , 2019, 2019, 778-781.

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| 19 | Infection Screening System Using Thermography and CCD Camera with Good Stability and Swiftness for Non-contact Vital-Signs Measurement by Feature Matching and MUSIC Algorithm. , 2019, 2019, 3183-3186. | | 13 |
| 20 | A novel machine-learning-based infection screening system via 2013–2017 seasonal influenza patients' vital signs as training datasets. Journal of Infection, 2019, 78, 409-421. | 1.7 | 13 |
| 21 | Evaluation of Remote Photoplethysmography Measurement Conditions toward Telemedicine Applications. Sensors, 2021, 21, 8357. | 2.1 | 13 |
| 22 | Development of an infection screening system for entry inspection at airport quarantine stations using ear temperature, heart and respiration rates. , 2013, 2013, 6716-9. | | 12 |
| 23 | Vital-CUBE: A Non-Contact Vital Sign Monitoring System Using Medical Radar for Ubiquitous Home Healthcare. Journal of Medical Imaging and Health Informatics, 2014, 4, 863-867. | 0.2 | 12 |
| 24 | A compact and hand-held infection-screening system for use in rapid medical inspection at airport quarantine stations: system design and preliminary validation. Journal of Medical Engineering and Technology, 2015, 39, 185-190. | 0.8 | 11 |
| 25 | Medical Radar Signal Dataset for Non-Contact Respiration and Heart Rate Measurement. Data in Brief, 2022, 40, 107724. | 0.5 | 11 |
| 26 | Clinical evaluation of the newly developed infectious disease/fever screening radar system using the neural network and fuzzy grouping method for travellers with suspected infectious diseases at Narita International Airport Clinic. Journal of Infection, 2016, 72, 121-123. | 1.7 | 10 |
| 27 | Stable Contactless Sensing of Vital Signs Using RGB-Thermal Image Fusion System with Facial Tracking for Infection Screening. , 2018, 2018, 4371-4374. | | 10 |
| 28 | Simple and objective screening of major depressive disorder by heart rate variability analysis during paced respiration and mental task conditions. , 2017, 2017, 1316-1319. | | 9 |
| 29 | Field evaluation of an infectious disease/fever screening radar system during the 2017 dengue fever outbreak in Hanoi, Vietnam: a preliminary report. Journal of Infection, 2017, 75, 593-595. | 1.7 | 9 |
| 30 | Development of a Novel Web Camera-Based Contact-Free Major Depressive Disorder Screening System Using Autonomic Nervous Responses Induced by a Mental Task and Its Clinical Application. Frontiers in Physiology, 2021, 12, 642986. | 1.3 | 9 |
| 31 | A portable screening system for onboard entry screening at international airports using a microwave radar, reflective photo sensor and thermography. , 2011, , . | | 8 |
| 32 | Rapid and stable measurement of respiratory rate from Doppler radar signals using time domain autocorrelation model. , 2015, 2015, 5985-8. | | 8 |
| 33 | Development of a Mental Disorder Screening System Using Support Vector Machine for Classification of Heart Rate Variability Measured from Single-lead Electrocardiography. , 2019, , . | | 8 |
| 34 | Usefulness of heart rate variability indices in assessing the risk of an unsuccessful return to work after sick leave in depressed patients. Neuropsychopharmacology Reports, 2020, 40, 239-245. | 1.1 | 8 |
| 35 | A Pneumonia Screening System based on Parasympathetic Activity Monitoring in Non-contact Way using Compact Radars Beneath the Bed Mattress Journal of Infection, 2020, 81, e142-e144. | 1.7 | 8 |
| 36 | A Portable Infection Screening System Designed for Onboard Entry Screening Based on Multi-Parameter Vital Signs. International Journal of E-Health and Medical Communications, 2013, 4, 20-35. | 1.4 | 7 |

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| 37 | A novel stress monitoring method through stress-induced respiratory alterations: non-contact measurement of respiratory V(T)/T(I) alterations induced by stressful sound using a 10 GHz microwave radar. Journal of Medical Engineering and Technology, 2011, 35, 416-419. | 0.8 | 6 |
| 38 | Design an easy-to-use infection screening system for non-contact monitoring of vital-signs to prevent the spread of pandemic diseases. , 2014, 2014, 4811-4. | | 6 |
| 39 | Efficient Active Sensing with Categorized Further Explorations for a Home Behavior-Monitoring Robot. Journal of Healthcare Engineering, 2017, 2017, 1-16. | 1.1 | 6 |
| 40 | Dengue Fever Detecting System Using Peak-detection of Data from Contactless Doppler Radar. , 2018, 2018, 542-545. | | 6 |
| 41 | Clinical Application of Multiple Vital Signs-Based Infection Screening System in a Mongolian Hospital: Optimization of Facial Temperature Measurement by Thermography at Various Ambient Temperature Conditions Using Linear Regression Analysis. , 2018, 2018, 5313-5316. | | 6 |
| 42 | A non-contact infection screening system using medical radar and Linux-embedded FPGA: Implementation and preliminary validation. Informatics in Medicine Unlocked, 2019, 16, 100225. | 1.9 | 6 |
| 43 | Extracting Cardiac Information From Medical Radar Using Locally Projective Adaptive Signal Separation. Frontiers in Physiology, 2019, 10, 568. | 1.3 | 6 |
| 44 | Visualisation of epidemiological map using an Internet of Things infectious disease surveillance platform. Critical Care, 2020, 24, 400. | 2.5 | 6 |
| 45 | Short time cardio-vascular pulses estimation for dengue fever screening via continuous-wave Doppler radar using empirical mode decomposition and continuous wavelet transform. Biomedical Signal Processing and Control, 2021, 65, 102361. | 3.5 | 6 |
| 46 | Return-to-Work Screening by Linear Discriminant Analysis of Heart Rate Variability Indices in Depressed Subjects. Sensors, 2021, 21, 5177. | 2.1 | 6 |
| 47 | Proof-of-principle Experiment on 24 GHz Medical Radar for Non-contact Vital Signs Measurement. , 2021, 2021, 6884. | | 6 |
| 48 | KAZEKAMO: An infection screening system remote monitoring of multiple vital-signs for prevention of pandemic diseases. , 2014, , . | | 5 |
| 49 | Noncontact Monitoring of Vital Signs with RGB and Infrared Camera and Its Application to Screening of Potential Infection. , 0, , . | | 5 |
| 50 | Proposal of a hierarchical topology and spatial reuse superframe for enhancing throughput of a clusterâ€based WBAN. ETRI Journal, 2019, 41, 648-657. | 1.2 | 5 |
| 51 | Millimeter-Wave Cost-Effective Phased-Array Radar with Orthogonally Located Linear Tx and Rx Arrays. , 2019, , . | | 5 |
| 52 | Non-contact monitoring of heart rate variability using medical radar for the evaluation of dynamic changes in autonomic nervous activity during a head-up tilt test. Journal of Medical Engineering and Technology, 2019, 43, 411-417. | 0.8 | 5 |
| 53 | Development and Clinical Application of a Novel Non-contact Early Airflow Limitation Screening System Using an Infrared Time-of-Flight Depth Image Sensor. Frontiers in Physiology, 2020, 11, 552942. | 1.3 | 5 |
| 54 | Machine learning based classification model for screening of infected patients using vital signs. Informatics in Medicine Unlocked, 2021, 24, 100592. | 1.9 | 5 |

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| 55 | The Effect of an Auxiliary Stimulation on Motor Function Restoration by FES. Journal of Medical Systems, 2011, 35, 855-861. | 2.2 | 4 |
| 56 | A screening method based on amplitude probability distribution analysis for detecting the disordered breathing using microwave radar respiration signals. , 2012, , . | | 4 |
| 57 | Rapid screening for influenza using a multivariable logistic regression model to save labor at a clinic in Iwaki, Fukushima, Japan. American Journal of Infection Control, 2014, 42, 551-553. | 1.1 | 4 |
| 58 | Evaluation of a Home Biomonitoring Autonomous Mobile Robot. Computational Intelligence and Neuroscience, 2016, 2016, 1-8. | 1.1 | 4 |
| 59 | Dengue Fever Screening Using Vital Signs by Contactless Microwave Radar and Machine Learning. , 2019, , . | | 4 |
| 60 | Design and Evaluation of Digital Filters for Non-Contact Measuring of HRV using Medical Radar and Its Application in Bedside Patient Monitoring System. , 2021, 2021, 6962-6965. | | 4 |
| 61 | Development of a Novel Vital-Signs-Based Infection Screening Composite-Type Camera With Truncus Motion Removal Algorithm to Detect COVID-19 Within 10 Seconds and Its Clinical Validation. Frontiers in Physiology, 0, 13, . | 1.3 | 4 |
| 62 | Non-contact Vital Sign Measurement with Medical Radar and its Clinical Applications. , 2019, , . | | 3 |
| 63 | A Non-contact Spirometer with Time-of-Flight Sensor for Assessment of Pulmonary Function. , 2020, 2020, 4114-4117. | | 3 |
| 64 | Contactless Heartbeat Detection from CW-Doppler Radar using Windowed-Singular Spectrum Analysis. , 2020, 2020, 477-480. | | 3 |
| 65 | A Novel Non-contact Infection Screening System Based on Self-Organizing Map with K-means Clustering. Communications in Computer and Information Science, 2011, , 125-132. | 0.4 | 3 |
| 66 | The development of a novel high-precision major depressive disorder screening system using transient autonomic responses induced by dual mental tasks. Journal of Medical Engineering and Technology, 2018, 42, 121-127. | 0.8 | 2 |
| 67 | A neural network-based infection screening system that uses vital signs and percutaneous oxygen saturation for rapid screening of patients with influenza. Health, 2013, 05, 7-12. | 0.1 | 2 |
| 68 | Online state space filtering of biosignals using neural network-augmented Kalman filter. , 2017, , . | | 1 |
| 69 | Estimation of autonomic nervous activity toward affective human-robot interaction. , 2017, , . | | 1 |
| 70 | Development of a low-cost, portable, pediatric infection screening system using simultaneous measurement of multiple vital signs. , 2019, 2019, 7181-7184. | | 1 |
| 71 | Demonstration of a noncontact infection screening system based on RGB–thermal-imaging processing for detection of patients with suspected infectious disease. , 2020, , . | | 1 |
| 72 | Noncontact Monitoring of Relative Changes in Blood Pressure Using Microwave Radar Sensors. Journal of Biomedical Science and Engineering, 2022, 15, 51-65. | 0.2 | 1 |

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| 73 | Non-contact Measurement of Pulse Rate Variability Using a Webcam and Application to Mental Illness Screening System. , 2021, 2021, 7016-7019. | | 1 |
| 74 | Development of a wireless physiological computing platform using a national instruments' myRIO embedded device. , 2015, , . | | 0 |
| 75 | Development of an EMG-based Human-Machine Interface on Open-source Linux Platform for Evaluating the Motor Skill Acquisition Process. IFMBE Proceedings, 2017, , 38-42. | 0.2 | 0 |
| 76 | Vision-based HRV Measurement for HRI Study. , 2018, , . | | 0 |
| 77 | Sensors and Data Processing Techniques for Future Medicine. Journal of Sensors, 2018, 2018, 1-2. | 0.6 | 0 |
| 78 | Short Time and Contactless Virus Infection Screening System with Discriminate Function Using Doppler Radar. Communications in Computer and Information Science, 2017, , 263-273. | 0.4 | 0 |
| 79 | Estimation of Autonomic Nervous Activity for Communication Robot. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2017, 2017, 2A1-L07. | 0.0 | 0 |
| 80 | Random tree algorithm-based pediatric pneumonia screening using heart rate, respiration rate and temperature. , 2019, 1, . | | 0 |
| 81 | Non-contact radar screening system in patients with chronic obstructive pulmonary disease. , 2019, , . | | 0 |
| 82 | Non-contact Doppler radar screening system for the detection of COPD. , 2020, , . | | 0 |
| 83 | Development of non-contact real-time pneumonia monitor Long-term continuous operation in a recuperation hospital. Ningen Kogaku = the Japanese Journal of Ergonomics, 2020, 56, 1G2-02-1G2-02. | 0.0 | 0 |