# Roozbeh Jafari

List of Publications by Year
in descending order



| 196 | 5,360 | 172457 | 144013 |
|---|---|---|---|
| papers | citations | 29 h-index | 57 g-index |

| 197 | 197 | 197 | 4729 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
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| 1 | UTD-MHAD: A multimodal dataset for human action recognition utilizing a depth camera and a wearable inertial sensor. , 2015, , . | | 427 |
| 2 | Enabling Effective Programming and Flexible Management of Efficient Body Sensor Network Applications. IEEE Transactions on Human-Machine Systems, 2013, 43, 115-133. | 3.5 | 377 |
| 3 | A survey of depth and inertial sensor fusion for human action recognition. Multimedia Tools and Applications, 2017, 76, 4405-4425. | 3.9 | 261 |
| 4 | Improving Human Action Recognition Using Fusion of Depth Camera and Inertial Sensors. IEEE Transactions on Human-Machine Systems, 2015, 45, 51-61. | 3.5 | 221 |
| 5 | A Wearable System for Recognizing American Sign Language in Real-Time Using IMU and Surface EMG Sensors. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1281-1290. | 6.3 | 202 |
| 6 | Action Recognition from Depth Sequences Using Depth Motion Maps-Based Local Binary Patterns. , 2015, , . | | 145 |
| 7 | A Real-Time Human Action Recognition System Using Depth and Inertial Sensor Fusion. IEEE Sensors Journal, 2016, 16, 773-781. | 4.7 | 137 |
| 8 | Distributed recognition of human actions using wearable motion sensor networks. Journal of Ambient Intelligence and Smart Environments, 2009, 1, 103-115. | 1.4 | 130 |
| 9 | Fusion of Inertial and Depth Sensor Data for Robust Hand Gesture Recognition. IEEE Sensors Journal, 2014, 14, 1898-1903. | 4.7 | 122 |
| 10 | BioWatch: A Noninvasive Wrist-Based Blood Pressure Monitor That Incorporates Training Techniques for Posture and Subject Variability. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1291-1300. | 6.3 | 122 |
| 11 | From Modeling to Implementation of Virtual Sensors in Body Sensor Networks. IEEE Sensors Journal, 2012, 12, 583-593. | 4.7 | 117 |
| 12 | Noninvasive Cuffless Blood Pressure Estimation Using Pulse Transit Time and Impedance Plethysmography. IEEE Transactions on Biomedical Engineering, 2019, 66, 967-976. | 4.2 | 111 |
| 13 | A Body Sensor Network With Electromyogram and Inertial Sensors: Multimodal Interpretation of Muscular Activities. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 198-206. | 3.2 | 89 |
| 14 | CareNet: An Integrated Wireless Sensor Networking Environment for Remote Healthcare. , 2008, , . | | 88 |
| 15 | Coordination Analysis of Human Movements With Body Sensor Networks: A Signal Processing Model to Evaluate Baseball Swings. IEEE Sensors Journal, 2011, 11, 603-610. | 4.7 | 86 |
| 16 | The Swarm at the Edge of the Cloud. IEEE Design and Test, 2014, 31, 8-20. | 1.2 | 83 |
| 17 | Physical Movement Monitoring Using Body Sensor Networks: A Phonological Approach to Construct Spatial Decision Trees. IEEE Transactions on Industrial Informatics, 2011, 7, 66-77. | 11.3 | 80 |
| 18 | Continuous cuffless monitoring of arterial blood pressure via graphene bioimpedance tattoos. Nature Nanotechnology, 2022, 17, 864-870. | 31.5 | 79 |

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|---|---|---|---|
| 19 | Cuffless Blood Pressure Monitoring from an Array of Wrist Bio-Impedance Sensors Using Subject-Specific Regression Models: Proof of Concept. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1723-1735. | 4.0 | 77 |
| 20 | Automatic Identification of Artifact-Related Independent Components for Artifact Removal in EEG Recordings. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 73-81. | 6.3 | 76 |
| 21 | Power-Aware Activity Monitoring Using Distributed Wearable Sensors. IEEE Transactions on Human-Machine Systems, 2014, 44, 537-544. | 3.5 | 68 |
| 22 | Inertial Measurement Unit-Based Wearable Computers for Assisted Living Applications: A signal processing perspective. IEEE Signal Processing Magazine, 2016, 33, 28-35. | 5.6 | 65 |
| 23 | Sport training using body sensor networks: a statistical approach to measure wrist rotation for golf swing. , 2009, , . | | 64 |
| 24 | Distributed segmentation and classification of human actions using a wearable motion sensor network. , 2008, , . | | 57 |
| 25 | A medication adherence monitoring system for pill bottles based on a wearable inertial sensor. , 2014, 2014, 4983-6. | | 57 |
| 26 | Real-time American Sign Language Recognition using wrist-worn motion and surface EMG sensors. , 2015, , . | | 57 |
| 27 | Structural Action Recognition in Body Sensor Networks: Distributed Classification Based on String Matching. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 425-435. | 3.2 | 52 |
| 28 | An Accurate Bioimpedance Measurement System for Blood Pressure Monitoring. Sensors, 2018, 18, 2095. | 3.8 | 51 |
| 29 | Fusion of depth, skeleton, and inertial data for human action recognition. , 2016, , . | | 50 |
| 30 | Particle Filtering and Sensor Fusion for Robust Heart Rate Monitoring Using Wearable Sensors. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1834-1846. | 6.3 | 48 |
| 31 | Orientation Independent Activity/Gesture Recognition Using Wearable Motion Sensors. IEEE Internet of Things Journal, 2019, 6, 1427-1437. | 8.7 | 48 |
| 32 | Fusion of Video and Inertial Sensing for Deep Learningâ€“Based Human Action Recognition. Sensors, 2019, 19, 3680. | 3.8 | 46 |
| 33 | Physical Activity Monitoring for Assisted Living at Home. , 2007, , 213-219. | | 45 |
| 34 | Wearable coach for sport training: A quantitative model to evaluate wrist-rotation in golf. Journal of Ambient Intelligence and Smart Environments, 2009, 1, 173-184. | 1.4 | 43 |
| 35 | Body sensor networks for driver distraction identification. , 2008, , . | | 40 |
| 36 | Energy-Efficient Information-Driven Coverage for Physical Movement Monitoring in Body Sensor Networks. IEEE Journal on Selected Areas in Communications, 2009, 27, 58-69. | 14.0 | 40 |

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| 37 | A Method for Extracting Temporal Parameters Based on Hidden Markov Models in Body Sensor Networks With Inertial Sensors. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 1019-1030. | 3.2 | 39 |
| 38 | Adaptive and fault tolerant medical vest for life-critical medical monitoring. , 2005, , . | | 36 |
| 39 | BioWatch — A wrist watch based signal acquisition system for physiological signals including blood pressure. , 2014, 2014, 2286-9. | | 36 |
| 40 | Transferring activity recognition models for new wearable sensors with deep generative domain adaptation. , 2019, , . | | 35 |
| 41 | Personalizing Activity Recognition Models Through Quantifying Different Types of Uncertainty Using Wearable Sensors. IEEE Transactions on Biomedical Engineering, 2020, 67, 2530-2541. | 4.2 | 35 |
| 42 | Cuffless blood pressure monitoring from a wristband with calibration-free algorithms for sensing location based on bio-impedance sensor array and autoencoder. Scientific Reports, 2022, 12, 319. | 3.3 | 35 |
| 43 | A phonological expression for physical movement monitoring in body sensor networks. , 2008, , . | | 32 |
| 44 | Non-Invasive Cardiac and Respiratory Activity Assessment From Various Human Body Locations Using Bioimpedance. IEEE Open Journal of Engineering in Medicine and Biology, 2021, 2, 210-217. | 2.3 | 30 |
| 45 | Ultra low-power signal processing in wearable monitoring systems. Transactions on Embedded Computing Systems, 2013, 13, 1-23. | 2.9 | 29 |
| 46 | Home-based Senior Fitness Test measurement system using collaborative inertial and depth sensors. , 2014, 2014, 4135-8. | | 29 |
| 47 | Impact of sensor misplacement on dynamic time warping based human activity recognition using wearable computers. , 2012, 2012, . | | 28 |
| 48 | Design Principles and Dynamic Front End Reconfiguration for Low Noise EEG Acquisition With Finger Based Dry Electrodes. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 631-640. | 4.0 | 27 |
| 49 | Collaborative signal processing for action recognition in body sensor networks. , 2010, , . | | 26 |
| 50 | Robust heart rate estimation using wrist-based PPG signals in the presence of intense physical activities. , 2015, 2015, 8078-82. | | 26 |
| 51 | QUANTIFIED DEEP TENDON REFLEX DEVICE, SECOND GENERATION. Journal of Mechanics in Medicine and Biology, 2008, 08, 75-85. | 0.7 | 25 |
| 52 | Bio-impedance spectroscopy (BIS) measurement system for wearable devices. , 2017, , . | | 24 |
| 53 | A Survey on Smart Homes for Aging in Place: Toward Solutions to the Specific Needs of the Elderly. IEEE Signal Processing Magazine, 2018, 35, 111-119. | 5.6 | 24 |
| 54 | ImpediBands: Body Coupled Bio-Impedance Patches for Physiological Sensing Proof of Concept. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 757-774. | 4.0 | 23 |

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| 55 | Multi-HMM classification for hand gesture recognition using two differing modality sensors. , 2014, , . | | 22 |
| 56 | Continuous Blood Pressure Monitoring using Wrist-worn Bio-impedance Sensors with Wet Electrodes. , 2018, 2018, . | | 22 |
| 57 | Body sensor networks to evaluate standing balance. , 2008, , . | | 21 |
| 58 | Distributed Continuous Action Recognition Using a Hidden Markov Model in Body Sensor Networks. Lecture Notes in Computer Science, 2009, , 145-158. | 1.3 | 21 |
| 59 | Ultra-Low Power Digitally Operated Tunable MEMS Accelerometer. IEEE Sensors Journal, 2016, 16, 8715-8721. | 4.7 | 21 |
| 60 | Human identification by gait analysis. , 2008, , . | | 20 |
| 61 | MotionSynthesis toolset (MoST). , 2014, , . | | 20 |
| 62 | A Low Power Wake-Up Circuitry Based on Dynamic Time Warping for Body Sensor Networks. , 2011, , . | | 19 |
| 63 | Hierarchical Signal Segmentation and Classification for Accurate Activity Recognition. , 2018, , . | | 19 |
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| 70 | A Distributed Hidden Markov Model for Fine-grained Annotation in Body Sensor Networks. , 2009, , . | | 16 |
| 71 | Context-Aware Data Processing to Enhance Quality of Measurements in Wireless Health Systems: An Application to MET Calculation of Exergaming Actions. IEEE Internet of Things Journal, 2015, 2, 84-93. | 8.7 | 16 |
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| 73 | A Hardware-Assisted Energy-Efficient Processing Model for Activity Recognition Using Wearables. ACM Transactions on Design Automation of Electronic Systems, 2016, 21, 1-27. | 2.6 | 15 |
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| 75 | Brain-Computer Interface Signal Processing Algorithms: A Computational Cost vs. Accuracy Analysis for Wearable Computers. , 2012, , . | | 14 |
| 76 | Data-Driven Synchronization for Internet-of-Things Systems. Transactions on Embedded Computing Systems, 2017, 16, 1-24. | 2.9 | 14 |
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| 78 | A 16-channel bluetooth enabled wearable EEG platform with dry-contact electrodes for brain computer interface. , 2013, , . | | 13 |
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| 90 | MotionSynthesis Toolset (MoST): An Open Source Tool and Data Set for Human Motion Data Synthesis and Validation. IEEE Sensors Journal, 2016, 16, 5365-5375. | 4.7 | 10 |

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| 91 | Design, Characterization, and Control of a Size Adaptable In-pipe Robot for Water Distribution Systems. , 2021, , . | | 10 |
| 92 | Locomotion monitoring using body sensor networks. , 2008, , . | | 9 |
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| 99 | A novel stimulation for multi-class SSVEP-based brain-computer interface using patterns of time-varying frequencies. , 2014, 2014, 118-21. | | 8 |
| 100 | Motion Based Acceleration Correction for Improved Sensor Orientation Estimates. , 2014, , . | | 8 |
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| 103 | Pulse Wave Modeling Using Bio-Impedance Simulation Platform Based on a 3D Time-Varying Circuit Model. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 143-158. | 4.0 | 8 |
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| 107 | The impact of vibrotactile biofeedback on the excessive walking sway and the postural control in elderly. , 2013, 2013, . | | 7 |
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| 109 | A dynamically reconfigurable ECG analog front-end with a 2.5 Ã— data-dependent power reduction. , 2017, , . | | 7 |
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| 111 | A Decision Level Fusion and Signal Analysis Technique for Activity Segmentation and Recognition on Smart Phones. , 2018, , . | | 7 |
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| 117 | A Mining Technique Using $N$n-Grams and Motion Transcripts for Body Sensor Network Data Repository. Proceedings of the IEEE, 2012, 100, 107-121. | 21.3 | 6 |
| 118 | Reducing the noise level of EEG signal acquisition through reconfiguration of dry contact electrodes. , 2014, , . | | 6 |
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| 122 | Using Intelligent Personal Annotations to Improve Human Activity Recognition for Movements in Natural Environments. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2639-2650. | 6.3 | 6 |
| 123 | A resource optimized physical movement monitoring scheme for environmental and on-body sensor networks. , 2007, , . | | 5 |
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| 128 | Demonstration abstract: BioWatch â€" A wrist watch based physiological signal acquisition system. , 2014, , . | | 5 |
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| 130 | A Deep Learning Assisted Method for Measuring Uncertainty in Activity Recognition with Wearable Sensors. , 2019, , . | | 5 |
| 131 | Facilitating Human Activity Data Annotation via Context-Aware Change Detection on Smartwatches. Transactions on Embedded Computing Systems, 2021, 20, 1-20. | 2.9 | 5 |
| 132 | Locomotion Monitoring Using Body Sensor Networks. , 2008, , . | | 4 |
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| 134 | Applications of sensing platforms with wearable computers. , 2010, , . | | 4 |
| 135 | A wireless communication selection approach to minimize energy-per-bit for wearable computing applications. , 2011, , . | | 4 |
| 136 | Rejection of irrelevant human actions in real-time hidden Markov model based recognition systems for wearable computers. , 2011, 2011, . | | 4 |
| 137 | Maximizing information transfer rates in an SSVEP-based BCI using individualized Bayesian probability measures. , 2014, 2014, 654-7. | | 4 |
| 138 | A tunable digitally operated MEMS accelerometer. , 2015, , . | | 4 |
| 139 | Digitally assisted analog front-end power management strategy via dynamic reconfigurability for robust heart rate monitoring. ACM SIGBED Review, 2015, 12, 36-39. | 1.8 | 4 |
| 140 | Seamless Vision-assisted Placement Calibration for Wearable Inertial Sensors. Transactions on Embedded Computing Systems, 2017, 16, 1-22. | 2.9 | 4 |
| 141 | Guest Editorial Special Issue on Wearable Sensor-Based Big Data Analysis for Smart Health. IEEE Internet of Things Journal, 2019, 6, 1293-1297. | 8.7 | 4 |
| 142 | CMAS: Clinical movement assessment system for neuromotor disorders. , 2006, , . | | 3 |
| 143 | Power Aware Wireless Data Collection for BSN Data Repositories. , 2011, , . | | 3 |
| 144 | An Ultra Low Power Granular Decision Making Using Cross Correlation: Minimizing Signal Segments for Template Matching. , 2011, , . | | 3 |

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| 146 | BCIBench. , 2014, , . | | 3 |
| 147 | Exploration of interactions detectable by wearable IMU sensors. , 2015, , . | | 3 |
| 148 | Constructing energy expenditure regression model using heart rate with reduced training time. , 2015, 2015, 6566-9. | | 3 |
| 149 | Ultra-low power self-computing binary output digital MEMS accelerometer. , 2016, , . | | 3 |
| 150 | Wearable Computers for Sign Language Recognition. Scalable Computing and Communications, 2017, , 379-401. | 0.5 | 3 |
| 151 | A robust user interface for IoT using context-aware Bayesian fusion. , 2018, , . | | 3 |
| 152 | Transition-Aware Detection of Modes of Locomotion and Transportation Through Hierarchical Segmentation. IEEE Sensors Journal, 2021, 21, 3301-3313. | 4.7 | 3 |
| 153 | A Survey of Challenges and Opportunities in Sensing and Analytics for Risk Factors of Cardiovascular Disorders. ACM Transactions on Computing for Healthcare, 2021, 2, 1-42. | 5.0 | 3 |
| 154 | Signal Classification Using a Mechanically Coupled MEMS Neural Network. , 2021, , . | | 3 |
| 155 | Parametric Modeling of Human Wrist for Bioimpedance-Based Physiological Sensing. , 2022, , . | | 3 |
| 156 | Body sensor networks and ultra wideband communication. , 2008, , . | | 2 |
| 157 | A greedy buffer allocation algorithm for power-aware communication in body sensor networks. , 2010, , . | | 2 |
| 158 | Spectral Spatio-Temporal template extraction from EEG signals. , 2010, 2010, 4678-82. | | 2 |
| 159 | A mining technique using n-grams and motion transcripts for body sensor network data repository. , 2010, , . | | 2 |
| 160 | Lightweight power aware and scalable movement monitoring for wearable computers. , 2011, , . | | 2 |
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| 162 | Zero-Effort Camera-Assisted Calibration Techniques for Wearable Motion Sensors. , 2014, 2014, . | | 2 |

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| 166 | Robust Heart Rate Variability and Interbeat Interval Detection Algorithm in the Presence of Motion Artifacts. , 2019, , . | | 2 |
| 167 | Multi-source Multi-frequency Bio-impedance Measurement Method for Localized Pulse Wave Monitoring. , 2020, 2020, 3945-3948. | | 2 |
| 168 | Data-driven Context Detection Leveraging Passively Sensed Nearables for Recognizing Complex Activities of Daily Living. ACM Transactions on Computing for Healthcare, 2021, 2, 1-22. | 5.0 | 2 |
| 169 | Simulation for a Mems-Based CTRNN Ultra-Low Power Implementation of Human Activity Recognition. Frontiers in Digital Health, 2021, 3, 731076. | 2.8 | 2 |
| 170 | A Meta-Learning Approach for Fast Personalization of Modality Translation Models in Wearable Physiological Sensing. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1516-1527. | 6.3 | 2 |
| 171 | Developing Personalized Models of Blood Pressure Estimation from Wearable Sensors Data Using Minimally-trained Domain Adversarial Neural Networks. Proceedings of Machine Learning Research, 2020, 126, 97-120. | 0.3 | 2 |
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| 175 | Validation of a New Model-Free Signal Processing Method for Gait Feature Extraction Using Inertial Measurement Units to Diagnose and Quantify the Severity of Parkinson's Disease. , 2017, , . | | 1 |
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| 179 | The Applied Signal Processing Systems Technical Committee [In the Spotlight]. IEEE Signal Processing Magazine, 2021, 38, 137-139. | 5.6 | 1 |
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| 181 | Introduction to the special section on wireless health systems. Transactions on Embedded Computing Systems, 2013, 12, 1-2. | 2.9 | 0 |
| 182 | Score-based adaptive training for P300 speller Brain-Computer Interface. , 2013, , . | | 0 |
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| 184 | Guest Editorial Sensor Informatics for Managing Mental Health. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 975-976. | 6.3 | 0 |
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| 186 | Urban heartbeat: From modelling to applications. , 2017, , . | | 0 |
| 187 | Smart Watches for Physiological Monitoring: A Case Study on Blood Pressure Measurement. , 2017, , 231-252. | | 0 |
| 188 | Tagging wearable accelerometers in camera frames through information translation between vision sensors and accelerometers. , 2019, , . | | 0 |
| 189 | Power-Aware Heart Rate Monitoring using Particle Filters. , 2021, , . | | 0 |
| 190 | Reconfigurable Embedded Medical Systems. , 2009, , 228-240. | | 0 |
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| 195 | A Graph-based Method for Interbeat Interval and Heart Rate Variability Estimation Featuring Multichannel PPG Signals During Intensive Activity. , 2021, , . | | 0 |
| 196 | Real-time Signal-to-Noise Ratio Optimization of Bio-Impedance Signal for Cuffless Blood Pressure Monitoring. , 2021, 2021, 7480-7484. | | 0 |