

Lei Wang

List of Publications by Year in descending order

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165
papers

3,684
citations

113904

34
h-index

175522

52
g-index

169
all docs

169
docs citations

169
times ranked

5502
citing authors

#	ARTICLE	IF	CITATIONS
1	Polydimethylsiloxane (PDMS)-Based Flexible Resistive Strain Sensors for Wearable Applications. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 345.	2.6	192
2	Superelastic, Sensitive, and Low Hysteresis Flexible Strain Sensor Based on Wave-Patterned Liquid Metal for Human Activity Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22200-22211.	8.3	167
3	Deep Learning Intervention for Health Care Challenges: Some Biomedical Domain Considerations. <i>JMIR MHealth and UHealth</i> , 2019, 7, e11966.	3.8	122
4	A Wireless Biomedical Signal Interface System-on-Chip for Body Sensor Networks. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2010, 4, 112-117.	4.5	120
5	Implementation of Multichannel Sensors for Remote Biomedical Measurements in a Microsystems Format. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 525-535.	4.4	116
6	A Review on Flexible Robotic Systems for Minimally Invasive Surgery. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 631-644.	9.7	108
7	Multichannel Reflective PPG Earpiece Sensor With Passive Motion Cancellation. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2007, 1, 235-241.	4.5	93
8	Estimation of Respiration Rate from Three-Dimensional Acceleration Data Based on Body Sensor Network. <i>Telemedicine Journal and E-Health</i> , 2011, 17, 705-711.	3.0	84
9	A synergistic self-assembled 3D PEDOT:PSS/graphene composite sponge for stretchable microsupercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 554-564.	10.5	75
10	Graphene/polydimethylsiloxane nanocomposite strain sensor. <i>Review of Scientific Instruments</i> , 2013, 84, 105005.	1.4	71
11	Microchannel Structural Design For a Room-Temperature Liquid Metal Based Super-stretchable Sensor. <i>Scientific Reports</i> , 2019, 9, 5908.	3.4	66
12	A New Approach to Detect Congestive Heart Failure Using Short-Term Heart Rate Variability Measures. <i>PLoS ONE</i> , 2014, 9, e93399.	2.5	65
13	Toward a miniature wireless integrated multisensor microsystem for industrial and biomedical applications. <i>IEEE Sensors Journal</i> , 2002, 2, 628-635.	4.8	64
14	Flexible Pressure Sensors for Biomedical Applications: From Ex Vivo to In Vivo. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000743.	4.1	62
15	Towards Characterization and Adaptive Compensation of Backlash in a Novel Robotic Catheter System for Cardiovascular Interventions. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 824-838.	4.5	60
16	Highly stretchable sensors for wearable biomedical applications. <i>Journal of Materials Science</i> , 2019, 54, 5187-5223.	3.7	55
17	Towards 5G-Enabled Self Adaptive Green and Reliable Communication in Intelligent Transportation System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 5223-5231.	8.4	54
18	Metabolism of trans-ferulic acid by the white-rot fungus <i>sporotrichum pulverulentum</i> . <i>Archives of Microbiology</i> , 1981, 128, 349-354.	2.2	52

#	ARTICLE	IF	CITATIONS
19	Exploration and Implementation of a Pre-Impact Fall Recognition Method Based on an Inertial Body Sensor Network. <i>Sensors</i> , 2012, 12, 15338-15355.	4.0	52
20	A Survey of Tactile-Sensing Systems and Their Applications in Biomedical Engineering. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-17.	1.7	52
21	A Novel Technique for Fetal ECG Extraction Using Single-Channel Abdominal Recording. <i>Sensors</i> , 2017, 17, 457.	4.0	51
22	A Wearable Respiratory Biofeedback System Based on Generalized Body Sensor Network. <i>Telemedicine Journal and E-Health</i> , 2011, 17, 348-357.	3.0	48
23	Biocompatibility of a Lab-on-a-Pill Sensor in Artificial Gastrointestinal Environments. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 2333-2340.	4.4	46
24	A Programmable Microsystem Using System-on-Chip for Real-time Biotelemetry. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 1251-1260.	4.4	44
25	In Situ Characterization of Two Wireless Transmission Schemes for Ingestible Capsules. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 2020-2027.	4.4	43
26	Targeting Accurate Object Extraction From an Image: A Comprehensive Study of Natural Image Matting. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015, 26, 185-207.	12.6	42
27	An Approach for Noninvasive Blood Glucose Monitoring Based on Bioimpedance Difference Considering Blood Volume Pulsation. <i>IEEE Access</i> , 2018, 6, 51119-51129.	4.4	42
28	A Novel Adaptive Battery-Aware Algorithm for Data Transmission in IoT-Based Healthcare Applications. <i>Electronics (Switzerland)</i> , 2021, 10, 367.	3.2	41
29	A Low-Cost Body Inertial-Sensing Network for Practical Gait Discrimination of Hemiplegia Patients. <i>Telemedicine Journal and E-Health</i> , 2012, 18, 748-754.	3.0	39
30	Characterization of In-Body Radio Channels for Wireless Implants. <i>IEEE Sensors Journal</i> , 2017, 17, 1528-1537.	4.8	37
31	Dynamic Propagation Channel Characterization and Modeling for Human Body Communication. <i>Sensors</i> , 2012, 12, 17569-17587.	4.0	36
32	Non-invasive Monitoring of Three Glucose Ranges Based On ECG By Using DBSCAN-CNN. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3340-3350.	6.9	36
33	A Novel Recursive Bayesian Learning-Based Method for the Efficient and Accurate Segmentation of Video With Dynamic Background. <i>IEEE Transactions on Image Processing</i> , 2012, 21, 3865-3876.	10.2	35
34	Toward ML-Based Energy-Efficient Mechanism for 6G Enabled Industrial Network in Box Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 7185-7192.	12.1	35
35	Implementation of radiotelemetry in a lab-in-a-pill format. <i>Lab on A Chip</i> , 2006, 6, 39-45.	6.1	32
36	A Supersensitive, Multidimensional Flexible Strain Gauge Sensor Based on Ag/PDMS for Human Activities Monitoring. <i>Scientific Reports</i> , 2020, 10, 4639.	3.4	32

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37	A Soft Wearable and Fully-Textile Piezoresistive Sensor for Plantar Pressure Capturing. <i>Micromachines</i> , 2021, 12, 110.	3.0	32
38	A review of non-contact, low-cost physiological information measurement based on photoplethysmographic imaging. , 2012, 2012, 2088-91.		31
39	Feature Selection and Predictors of Falls with Foot Force Sensors Using KNN-Based Algorithms. <i>Sensors</i> , 2015, 15, 29393-29407.	4.0	30
40	A restricted Boltzmann machine based two-lead electrocardiography classification. , 2015, , .		29
41	Sample entropy characteristics of movement for four foot types based on plantar centre of pressure during stance phase. <i>BioMedical Engineering OnLine</i> , 2013, 12, 101.	2.8	26
42	On the Mechanical Power Output Comparisons of Cone Dielectric Elastomer Actuators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 3151-3162.	6.1	25
43	A wearable respiration monitoring system based on digital respiratory inductive plethysmography. , 2009, 2009, 4844-7.		24
44	Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes. <i>IEEE Internet of Things Journal</i> , 2021, 8, 9664-9671.	9.3	24
45	Exploiting Bistability for High-Performance Dielectric Elastomer Resonators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 5994-6005.	6.1	24
46	Facile Fabrication of 3D Porous Sponges Coated with Synergistic Carbon Black/Multiwalled Carbon Nanotubes for Tactile Sensing Applications. <i>Nanomaterials</i> , 2020, 10, 1941.	4.2	23
47	Fiber Bragg Grating-Based Force Sensing in Robot-Assisted Cardiac Interventions: A Review. <i>IEEE Sensors Journal</i> , 2021, 21, 10317-10331.	4.8	23
48	Automatic thickness estimation for skeletal muscle in ultrasonography: evaluation of two enhancement methods. <i>BioMedical Engineering OnLine</i> , 2013, 12, 6.	2.8	22
49	The Sensitive and Efficient Detection of Quadriceps Muscle Thickness Changes in Cross-Sectional Plane Using Ultrasonography: A Feasibility Investigation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014, 18, 628-635.	6.9	22
50	Decentralized Energy Efficient Model for Data Transmission in IoT-based Healthcare System. , 2021, , .		22
51	Relationship of EMG/SMG features and muscle strength level: an exploratory study on tibialis anterior muscles during plantar-flexion among hemiplegia patients. <i>BioMedical Engineering OnLine</i> , 2014, 13, 5.	2.8	21
52	Identity Recognition by Walking Outdoors Using Multimodal Sensor Insoles. <i>IEEE Access</i> , 2020, 8, 150797-150807.	4.4	21
53	Classification of Neurodegenerative Diseases via Topological Motion Analysis—A Comparison Study for Multiple Gait Fluctuations. <i>IEEE Access</i> , 2020, 8, 96363-96377.	4.4	21
54	Augmenting intraoperative ultrasound with preoperative magnetic resonance planning models for percutaneous renal access. <i>BioMedical Engineering OnLine</i> , 2012, 11, 60.	2.8	20

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55	AI-driven adaptive reliable and sustainable approach for internet of things enabled healthcare system. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 3953-3971.	2.0	20
56	Miniature Four-Band CPW-Fed Antenna for RFID/WiMAX/WLAN Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014, 13, 1684-1688.	4.4	19
57	Toward a Smartphone Application for Estimation of Pulse Transit Time. <i>Sensors</i> , 2015, 15, 27303-27321.	4.0	19
58	A novel Bayesian-based nonlocal reconstruction method for freehand 3D ultrasound imaging. <i>Neurocomputing</i> , 2015, 168, 104-118.	6.2	19
59	An explorative investigation of functional differences in plantar center of pressure of four foot types using sample entropy method. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 537-548.	2.9	19
60	Deeply-learnt damped least-squares (DL-DLS) method for inverse kinematics of snake-like robots. <i>Neural Networks</i> , 2018, 107, 34-47.	6.4	19
61	Statistical and spectral analysis of ECG signal towards achieving non-invasive blood glucose monitoring. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 266.	3.1	19
62	An integrated sensor microsystem for industrial and biomedical applications. , 0, , .		18
63	An optical tracker based robot registration and servoing method for ultrasound guided percutaneous renal access. <i>BioMedical Engineering OnLine</i> , 2013, 12, 47.	2.8	18
64	The Effect of Light Conditions on Photoplethysmographic Image Acquisition Using a Commercial Camera. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2014, 2, 1-11.	3.9	18
65	Automatic detection of respiratory rate from electrocardiogram, respiration induced plethysmography and 3D acceleration signals. <i>Journal of Central South University</i> , 2013, 20, 2423-2431.	3.1	17
66	A Novel Nonlinear Regression Approach for Efficient and Accurate Image Matting. <i>IEEE Signal Processing Letters</i> , 2013, 20, 1078-1081.	3.7	17
67	Analysis and Comparison of the IEEE 802.15.4 and 802.15.6 Wireless Standards Based on MAC Layer. <i>Lecture Notes in Computer Science</i> , 2015, , 7-16.	1.0	17
68	An adaptive kernel regression method for 3D ultrasound reconstruction using speckle prior and parallel GPU implementation. <i>Neurocomputing</i> , 2018, 275, 208-223.	6.2	17
69	Towards adequate prediction of prediabetes using spatiotemporal ECG and EEG feature analysis and weight-based multi-model approach. <i>Knowledge-Based Systems</i> , 2020, 209, 106464.	7.4	17
70	Technical and Clinical Progress on Robot-Assisted Endovascular Interventions: A Review. <i>Micromachines</i> , 2023, 14, 197.	3.0	17
71	Balance and knee extensibility evaluation of hemiplegic gait using an inertial body sensor network. <i>BioMedical Engineering OnLine</i> , 2013, 12, 83.	2.8	16
72	A novel method based on two cameras for accurate estimation of arterial oxygen saturation. <i>BioMedical Engineering OnLine</i> , 2015, 14, 52.	2.8	16

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73	Toward broad optimal output bandwidth dielectric elastomer actuators. Science China Technological Sciences, 2022, 65, 1137-1148.	4.0	16
74	Automatic Tracking of Aponeuroses and Estimation of Muscle Thickness in Ultrasonography: A Feasibility Study. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 1031-1038.	6.9	15
75	Back propagation neural network dehazing. , 2014, , .		15
76	Evaluation of Propagation Characteristics Using the Human Body as an Antenna. Sensors, 2017, 17, 2878.	4.0	15
77	Motion and Trajectory Constraints Control Modeling for Flexible Surgical Robotic Systems. Micromachines, 2020, 11, 386.	3.0	15
78	Topological EEG Nonlinear Dynamics Analysis for Emotion Recognition. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 625-638.	4.3	15
79	Electrochemistry of praseodymium in LiFâ€“CaF2. Journal of Radioanalytical and Nuclear Chemistry, 2011, 289, 591-593.	1.5	14
80	An Approach to Biometric Verification Based on Human Body Communication in Wearable Devices. Sensors, 2017, 17, 125.	4.0	14
81	Automatic tool segmentation and tracking during robotic intravascular catheterization for cardiac interventions. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2688-2710.	2.1	14
82	A statistical frame based TDMA protocol for human body communication. BioMedical Engineering OnLine, 2015, 14, 65.	2.8	13
83	Gait Rhythm Dynamics for Neuro-Degenerative Disease Classification via Persistence Landscape- Based Topological Representation. Sensors, 2020, 20, 2006.	4.0	13
84	An FPC based flexible dry electrode with stacked double-micro-domes array for wearable biopotential recording system. Microsystem Technologies, 2017, 23, 1443-1451.	2.1	12
85	Design of a Sensor Insole for Gait Analysis. Lecture Notes in Computer Science, 2019, , 433-444.	1.0	12
86	Variable-rate data sampling for low-power microsystems using modified adams methods. IEEE Transactions on Signal Processing, 2003, 51, 3182-3190.	5.6	11
87	Non-iterative geometric approach for inverse kinematics of redundant lead-module in a radiosurgical snake-like robot. BioMedical Engineering OnLine, 2017, 16, 93.	2.8	11
88	A teleoperated snake-like robot for minimally invasive radiosurgery of gastrointestinal tumors. , 2018, , .		11
89	Exploration of Interventionistsâ€™ Technical Manipulation Skills for Robot-Assisted Intravascular PCI Catheterization. IEEE Access, 2020, 8, 53750-53765.	4.4	11
90	Development of a Fiber Bragg Grating-Based Force Sensor for Minimally Invasive Surgeryâ€™Case Study of Ex-Vivo Tissue Palpation. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-12.	4.7	11

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91	A low-frequency low-noise transceiver for human body channel communication. , 2009, , .		10
92	Analysis of entropies based on empirical mode decomposition in amnesic mild cognitive impairment of diabetes mellitus. Journal of Innovative Optical Health Sciences, 2015, 08, 1550010.	1.0	10
93	A Master-Slave control system with workspaces isomerism for teleoperation of a snake robot. , 2017, 2017, 4343-4346.		10
94	Co-contraction characteristics of lumbar muscles in patients with lumbar disc herniation during different types of movement. BioMedical Engineering OnLine, 2018, 17, 8.	2.8	10
95	Dynamic virtual fixture on the Euclidean group for admittance-type manipulator in deforming environments. BioMedical Engineering OnLine, 2014, 13, 51.	2.8	9
96	A Fuzzy-PD model for master-slave tracking in teleoperated robotic surgery. , 2016, , .		9
97	The Effectiveness Assessment of Massage Therapy Using Entropy-Based EEG Features Among Lumbar Disc Herniation Patients Comparing With Healthy Controls. IEEE Access, 2020, 8, 7758-7775.	4.4	9
98	A Novel Method of Using Bifilar Spiral Resonator for Designing Thin Robust Flexible Glucose Sensors. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	9
99	Adapting Neural-Based Models for Position Error Compensation in Robotic Catheter Systems. Applied Sciences (Switzerland), 2022, 12, 10936.	2.6	9
100	Fabrication and wireless micromanipulation of magnetic-biocompatible microrobots using microencapsulation for microrobotics and microfluidics applications. Journal of Microencapsulation, 2016, 33, 712-717.	2.6	8
101	Realization of Low Profile Leaky Wave Antennas Using the Bending Technique for Frequency Scanning and Sensor Applications. Sensors, 2019, 19, 2265.	4.0	8
102	Adapting Random Forest Classifier Based on Single and Multiple Features for Surface Electromyography Signal Recognition. , 2019, , .		8
103	3D nanofabricated soft microrobots with super-compliant picoforce springs as onboard sensors and actuators. Nature Nanotechnology, 2024, 19, 494-503.	30.5	8
104	Learning-based Parameter Estimation for Hysteresis Modeling in Robotic Catheterization. , 2019, 2019, 5399-5402.		7
105	Towards noninvasive and fast detection of Glycated hemoglobin levels based on ECG using convolutional neural networks with multisegments fusion and Varied-weight. Expert Systems With Applications, 2021, 186, 115846.	7.9	7
106	A Preliminary Study on Surface Electromyography Signal Analysis for Motion Characterization During Catheterization. Lecture Notes in Computer Science, 2019, , 617-628.	1.0	7
107	An efficient framework for estimation of muscle fiber orientation using ultrasonography. BioMedical Engineering OnLine, 2013, 12, 98.	2.8	6
108	Analysis of Electroencephalogram of patients with specific low back pain with the massage treatment. , 2017, 2017, 479-483.		6

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109	A Novel Antibacterial Membrane Electrode Based on Bacterial Cellulose/Polyaniline/AgNO ₃ Composite for Bio-Potential Signal Monitoring. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-10.	3.9	6
110	An Area-Efficient and Highly Linear Reconfigurable Continuous-Time Filter for Biomedical Sensor Applications. Sensors, 2020, 20, 2065.	4.0	6
111	An Adaptive Energy Optimization Mechanism for Decentralized Smart Healthcare Applications. , 2021, , .		6
112	A Hybrid Microstructure Piezoresistive Sensor with Machine Learning Approach for Gesture Recognition. Applied Sciences (Switzerland), 2021, 11, 7264.	2.6	6
113	Topological Descriptors of Gait Nonlinear Dynamics Toward Freezing-of-Gait Episodes Recognition in Parkinson's Disease. IEEE Sensors Journal, 2022, 22, 4294-4304.	4.8	6
114	Weighting-Based Deep Ensemble Learning for Recognition of Interventionalists' Hand Motions During Robot-Assisted Intravascular Catheterization. IEEE Transactions on Human-Machine Systems, 2023, 53, 215-227.	4.0	6
115	A customized model for 3D human segmental kinematic coupling analysis by optoelectronic stereophotogrammetry. Science China Technological Sciences, 2010, 53, 2947-2953.	4.0	5
116	Quick shift segmentation guided single image haze removal algorithm. , 2014, , .		5
117	Wearable biometric authentication based on human body communication. , 2015, , .		5
118	A flexible and miniaturized wireless ECG recording system with metal-skin contacts input for wearable personalized healthcare. , 2016, , .		5
119	A novel low-power compact WBS human body channel receiver for wearable vital signal sensing application in wireless body-area network. Microsystem Technologies, 2017, 23, 4459-4473.	2.1	5
120	A geometric solution for inverse kinematics of redundant teleoperated surgical snake robots. , 2017, , .		5
121	Modeling and characterization of different channels based on human body communication. , 2017, 2017, 702-705.		5
122	A Novel CGM Metric-Gradient and Combining Mean Sensor Glucose Enable to Improve the Prediction of Nocturnal Hypoglycemic Events in Patients with Diabetes. Journal of Diabetes Research, 2020, 2020, 1-8.	2.4	5
123	An absolute magnitude deviation of HRV for the prediction of prediabetes with combined artificial neural network and regression tree methods. Artificial Intelligence Review, 2022, 55, 2221-2244.	16.1	5
124	Exploring Operators' Natural Behaviors to Predict Catheterization Trial Outcomes in Robot-Assisted Intravascular Interventions. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 682-695.	3.3	5
125	Networked wireless microsystem for remote gastrointestinal monitoring. , 0, , .		4
126	A low-offset analogue front-end IC for multi-channel physiological signal acquisition. , 2009, 2009, 4473-6.		4

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127	A Multiple-Hop Synchronization Protocol with Packet Reconstitution. , 2010, , .		4
128	Exploration and Comparison of the Pre-impact Lead Time of Active and Passive Falls Based on Inertial Sensors. Bio-Medical Materials and Engineering, 2014, 24, 279-288.	0.6	4
129	Photopatternable Magnetic Hollowbots by Nd-Fe-B Nanocomposite for Potential Targeted Drug Delivery Applications. Micromachines, 2018, 9, 182.	3.0	4
130	Estimation of longitudinal muscle motion using a primal-dual algorithm. , 2012, , .		3
131	<i>IN-SITU</i> CHARACTERIZATIONS OF 1â€“200 MHz RADIO FREQUENCY SIGNAL COUPLING WITH HUMAN BODY. Biomedical Engineering - Applications, Basis and Communications, 2012, 24, 285-294.	0.6	3
132	Asynchronous Event-driven Encoder With Simultaneous Temporal Envelope and Phase Extraction for Cochlear Implants. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 620-630.	4.5	3
133	The impact of ossification spread on cervical spine function in patients with ossification of the posterior longitudinal ligament. Scientific Reports, 2021, 11, 14337.	3.4	3
134	A New Approach for Face Detection Based on Photoplethysmographic Imaging. Lecture Notes in Computer Science, 2015, , 79-91.	1.0	3
135	Dual Defocused Laser Pyrolysis: A Lasingâ€“Centric Strategy for Defect and Morphological Optimization in Microsupercapacitor Electrodes. Small Methods, 2022, 6, e2101616.	9.6	3
136	Interventionalist Hand Motion Recognition With Convolutional Neural Network in Robot-Assisted Coronary Interventions. IEEE Sensors Journal, 2023, 23, 17725-17736.	4.8	3
137	Topological EEG-Based Functional Connectivity Analysis for Mental Workload State Recognition. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-14.	4.7	3
138	Toward a mixed-signal reconfigurable ASIC for real-time activity recognition. , 2008, , .		2
139	Realization of spatial compliant virtual fixture using eigenscrews. , 2012, 2012, 1506-9.		2
140	Augmented reality using 3D shape model for ultrasound-guided percutaneous renal access: A pig model study. , 2014, , .		2
141	Augmenting interventional ultrasound using statistical shape model for guiding percutaneous nephrolithotomy: Initial evaluation in pigs. Neurocomputing, 2014, 144, 58-69.	6.2	2
142	Deep learning-based classification of massive electrocardiography data. , 2016, , .		2
143	Freestanding electrostatic scratch drive microstructures using lamination of photosensitive films for microfluidics and microrobotics applications. Microsystem Technologies, 2017, 23, 5017-5022.	2.1	2
144	Massage Therapyâ€™s Effectiveness on the Decoding EEG Rhythms of Left/Right Motor Imagery and Motion Execution in Patients With Skeletal Muscle Pain. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-20.	3.9	2

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145	Kinematics Constraint Modeling for Flexible Robots based on Deep Learning ¹. , 2021, 2021, 4940-4943.		2
146	A statistical deformation model-based data augmentation method for volumetric medical image segmentation. Medical Image Analysis, 2024, 91, 102984.	11.8	2
147	Development of an Intuitive Interface with Haptic Enhancement for Robot-Assisted Endovascular Intervention. IEEE Transactions on Haptics, 2023, , 1-13.	2.7	2
148	A CMOS Discrete-Time Reconfigurable Analogue ASIC for Low Power Biomedical Signal Filtering. , 2009, , .		1
149	Pre-processing for muscle motion analysis: Adaptive guided image filtering for speckle reduction of ultrasound images. , 2013, 2013, 4026-9.		1
150	Adaptation of Translated Frame-Based Approach for Forward Kinematics in a Radiosurgical Snake-Like Robot. , 2018, 2018, 3669-3672.		1
151	A Custom Base Station for Collecting and Processing Data of Research-Grade Motion Sensor Units. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 11-18.	0.0	1
152	A Portable Low-Power 7-Lead ECG Recorder with a New Analogue Front-End IC. IFMBE Proceedings, 2014, , 100-104.	0.0	1
153	Representation of Vital Signs in Minimal Parameter Set. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
154	An Energy-Efficient Receiver for Human Body Communication. Applied Mechanics and Materials, 0, 195-196, 84-89.	0.1	0
155	Wireless Sensor Microsystem Design: A Practical Perspective. , 2014, , 463-494.		0
156	Wireless Endoscopy: Technology and Design. Methods in Molecular Biology, 2010, 583, 221-246.	0.0	0
157	Wireless Sensor Microsystem Design: A Practical Perspective. , 2006, , 373-397.		0
158	Research on Classification of Patient-ventilator Asynchrony Using Permutation Disalignment Index. , 2021, , .		0
159	A novel insect-inspired "clicking" dielectric elastomer oscillator for soft robotics. , 2021, , .		0
160	Topological Nonlinear Analysis of Dynamical Systems in Wearable Sensor-Based Human Physical Activity Inference. IEEE Transactions on Human-Machine Systems, 2023, 53, 792-801.	4.0	0
161	Concomitant Skew and Phase Correction (CSPC) for Industry 5.0 Enabler Pervasive Distributed Computing Systems. IEEE Transactions on Consumer Electronics, 2024, 70, 1511-1518.	3.7	0
162	Multi-Lateral Branched Network for Tool Segmentation During Robot-Assisted Endovascular Interventions. IEEE Transactions on Medical Robotics and Bionics, 2024, 6, 433-447.	3.3	0

#	ARTICLE	IF	CITATIONS
163	Topological Data Analysis for Robust Gait Biometrics Based On Wearable Sensors. IEEE Transactions on Consumer Electronics, 2024, , 1-1.	3.7	0
164	736P Exceptional clinical benefit (ECB) from immune checkpoint inhibitors (ICIs) in mismatch-repair deficient (MMRd) in recurrent /metastatic endometrial cancer (r/mEC): Are we curing a subset of MMRd EC patients (pts)?. Annals of Oncology, 2024, 35, S560.	1.3	0
165	Analyzing Surgeonâ€™s Robot Cooperative Performance in Robot-Assisted Intravascular Catheterization. IEEE Transactions on Human-Machine Systems, 2024, , 1-13.	4.0	0