Zhi-qiang Zhang

List of Publications by Year
in descending order

77	1,834	236925 25	302126 39
papers	citations	h-index	g-index

79	79	79	1952
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Non-iterative and Fast Deep Learning: Multilayer Extreme Learning Machines. Journal of the Franklin Institute, 2020, 357, 8925-8955.	3.4	139
2	An Energy-Efficient Compressive Sensing-Based Clustering Routing Protocol for WSNs. IEEE Sensors Journal, 2019, 19, 3950-3960.	4.7	108
3	High-Order Model-Free Adaptive Iterative Learning Control of Pneumatic Artificial Muscle With Enhanced Convergence. IEEE Transactions on Industrial Electronics, 2020, 67, 9548-9559.	7.9	84
4	Ubiquitous Human Upper-Limb Motion Estimation using Wearable Sensors. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 513-521.	3.2	69
5	Quaternion-Based Kalman Filter With Vector Selection for Accurate Orientation Tracking. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2817-2824.	4.7	65
6	Data Analytics in Steady-State Visual Evoked Potential-Based Brainâ€“Computer Interface: A Review. IEEE Sensors Journal, 2021, 21, 1124-1138.	4.7	63
7	Adaptive Information Fusion for Human Upper Limb Movement Estimation. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 1100-1108.	2.9	58
8	A Novel Hierarchical Information Fusion Method for Three-Dimensional Upper Limb Motion Estimation. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3709-3719.	4.7	55
9	Wearable Sensing for Solid Biomechanics. IEEE Sensors Journal, 2015, , 1-1.	4.7	55
10	SSVEP-Based Brainâ€“Computer Interface Controlled Functional Electrical Stimulation System for Upper Extremity Rehabilitation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 947-956.	9.3	51
11	Data-Driven Multiobjective Optimization for Burden Surface in Blast Furnace With Feedback Compensation. IEEE Transactions on Industrial Informatics, 2020, 16, 2233-2244.	11.3	51
12	Use of an Inertial/Magnetic Sensor Module for Pedestrian Tracking During Normal Walking. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 776-783.	4.7	46
13	A CNN-LSTM Hybrid Model for Wrist Kinematics Estimation Using Surface Electromyography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	46
14	Calibration of Miniature Inertial and Magnetic Sensor Units for Robust Attitude Estimation. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 711-718.	4.7	43
15	A computationally efficient method for handâ€“eye calibration. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1775-1787.	2.8	43
16	Alterations of Muscle Synergies During Voluntary Arm Reaching Movement in Subacute Stroke Survivors at Different Levels of Impairment. Frontiers in Computational Neuroscience, 2018, 12, 69.	2.1	41
17	Self-Contained Pedestrian Tracking During Normal Walking Using an Inertial/Magnetic Sensor Module. IEEE Transactions on Biomedical Engineering, 2014, 61, 892-899.	4.2	40
18	Fusion of Inertial/Magnetic Sensor Measurements and Map Information for Pedestrian Tracking. Sensors, 2017, 17, 340.	3.8	38

#	Article	IF	Citations
19	A Framework for Learning Analytics Using Commodity Wearable Devices. Sensors, 2017, 17, 1382.	3.8	33
20	A Survey on Energy-Efficient Strategies in Static Wireless Sensor Networks. ACM Transactions on Sensor Networks, 2021, 17, 1-48.	3.6	33
21	An EMG-Driven Musculoskeletal Model for Estimating Continuous Wrist Motion. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 3113-3120.	4.9	33
22	Multilayer probability extreme learning machine for device-free localization. Neurocomputing, 2020, 396, 383-393.	5.9	32
23	Inter-Subject Domain Adaptation for CNN-Based Wrist Kinematics Estimation Using sEMG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1068-1078.	4.9	29
24	WISDOM: wheelchair inertial sensors for displacement and orientation monitoring. Measurement Science and Technology, 2011, 22, 105801.	2.6	28
25	Micromagnetometer Calibration for Accurate Orientation Estimation. IEEE Transactions on Biomedical Engineering, 2015, 62, 553-560.	4.2	28
26	Beat-to-beat ambulatory blood pressure estimation based on random forest. , 2016, , .		27
27	Two-Step Calibration Methods for Miniature Inertial and Magnetic Sensor Units. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	26
28	A lightweight sensing platform for monitoring sleep quality and posture: a simulated validation study. European Journal of Medical Research, 2018, 23, 28.	2.2	25
29	Multi-UAV Optimal Mission Assignment and Path Planning for Disaster Rescue Using Adaptive Genetic Algorithm and Improved Artificial Bee Colony Method. Actuators, 2022, 11, 4.	2.3	25
30	Robust extreme learning machine for modeling with unknown noise. Journal of the Franklin Institute, 2020, 357, 9885-9908.	3.4	24
31	An Analysis Framework for Interuser Interference in IEEE 802.15.6 Body Sensor Networks: A Stochastic Geometry Approach. IEEE Transactions on Vehicular Technology, 2016, 65, 8567-8577.	6.3	23
32	Motor Function Assessment of Upper Limb in Stroke Patients. Journal of Healthcare Engineering, 2021, 2021, 1-11.	1.9	22
33	Cameras and Inertial/Magnetic Sensor Units Alignment Calibration. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1495-1502.	4.7	21
34	Doppler Radar Vital Signs Detection Method Based on Higher Order Cyclostationary. Sensors, 2018, 18, 47.	3.8	21
35	Grasp Classification With Weft Knit Data Glove Using a Convolutional Neural Network. IEEE Sensors Journal, 2021, 21, 10824-10833.	4.7	20
36	Monitoring cardio-respiratory and posture movements during sleep: What can be achieved by a single motion sensor. , 2015, , .		19

#	Article	IF	Citations
37	Surface-EMG based Wrist Kinematics Estimation using Convolutional Neural Network. , 2019, , .		18
38	A deep Kalman filter network for hand kinematics estimation using sEMG. Pattern Recognition Letters, 2021, 143, 88-94.	4.2	18
39	Wearable sensors for 3D upper limb motion modeling and ubiquitous estimation. Journal of Control Theory and Applications, 2011, 9, 10-17.	0.8	16
40	Multi-objective optimization-based adaptive class-specific cost extreme learning machine for imbalanced classification. Neurocomputing, 2022, 496, 107-120.	5.9	16
41	A Pilot Study of Individual Muscle Force Prediction during Elbow Flexion and Extension in the Neurorehabilitation Field. Sensors, 2016, 16, 2018.	3.8	15
42	A Fuzzy-logic Based Energy-efficient Clustering Algorithm for the Wireless Sensor Networks. , 2018, , .		14
43	Deformable structure from motion by fusing visual and inertial measurement data. , 2012, , .		12
44	Ambulatory Hip Angle Estimation using Gaussian Particle Filter. Journal of Signal Processing Systems, 2010, 58, 341-357.	2.1	11
45	Latency Aligning Task-Related Component Analysis Using Wave Propagation for Enhancing SSVEP-Based BCIs. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 851-859.	4.9	10
46	Snake robot shape sensing using micro-inertial sensors. , 2013, , .		9
47	Quantitative Assessment of Autonomic Regulation of the Cardiac System. Journal of Healthcare Engineering, 2019, 2019, 1-8.	1.9	9
48	The Effect of Miss and Tuck Stitches on a Weft Knit Strain Sensor. Sensors, 2021, 21, 358.	3.8	9
49	CNN Confidence Estimation for Rejection-Based Hand Gesture Classification in Myoelectric Control. IEEE Transactions on Human-Machine Systems, 2022, 52, 99-109.	3.5	9
50	Multi-Objective Optimization-Based High-Pass Spatial Filtering for SSVEP-Based Brainâ€“Computer Interfaces. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	9
51	Human Back Movement Analysis Using BSN. , 2011, , .		8
52	Forearm functional movement recognition using spare channel surface electromyography. , 2013, , .		8
53	Blind source separation and artefact cancellation for single channel bioelectrical signal. , 2016, , .		8
54	A Weft Knit Data Glove. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	7

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55	Development of a Face Recognition System and Its Intelligent Lighting Compensation Method for Dark-Field Application. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-16.	4.7	7
56	Wearable Sensor Integration and Bio-motion Capture: A Practical Perspective. , 2014, , 495-526.		7
57	Multi-model adaptation for thigh movement estimation using accelerometers. IET Signal Processing, 2011, 5, 709.	1.5	6
58	A personalized-model-based central aortic pressure estimation method. Journal of Biomechanics, 2016, 49, 4098-4106.	2.1	6
59	Human motion tracking based on complementary Kalman filter. , 2017, , .		5
60	Partially shared cache and adaptive replacement algorithm for NoC-based many-core systems. Journal of Systems Architecture, 2019, 98, 424-433.	4.3	4
61	A review of deep learning approaches in glove-based gesture classification. , 2021, , 143-164.		4
62	A Direct Collocation method for optimization of EMG-driven wrist muscle musculoskeletal model. , 2021, , .		4
63	A Robust, Practical Upper Limb Electromyography Interface Using Dry 3D Printed Electrodes*. , 2019, , .		3
64	An energyâ€efficiencyâ€adaptive clustering formation mechanism for the wireless sensor networks. IET Communications, 2022, 16, 255-265.	2.2	3
65	A Multidimensional Reputation Evaluation Model for Mobile Crowd Sensing. , 2019, , .		2
66	Upper Limb Muscle Force Estimation During Table Tennis Strokes. , 2019, , .		2
67	Quantitative Elbow Spasticity Measurement Based on Muscle Activation Estimation Using Maximal Voluntary Contraction. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	2
68	Adaptive Optimization Design of Vector Error Diffusion Algorithm and IP Core for FPGA. , 2018, , .		1
69	Hierarchic Clustering-Based Face Enhancement for Images Captured in Dark Fields. Electronics (Switzerland), 2021, 10, 936.	3.1	1
70	Multi-Objective Optimisation for SSVEP Detection. , 2021, , .		1
71	Robust Iterative Learning Control for Pneumatic Muscle with State Constraint and Model Uncertainty. , 2021, , .		1
72	Model-based assessment of cardiopulmonary autonomic regulation in paced deep breathing. Methods, 2022, , .	3.8	1

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73	On Multiplicative Topological Invariants of Magnesium Iodide Structure. Journal of Mathematics, 2022, 2022, 1-15.	1.0	1
74	Energy Efficiency of Gait Rehabilitation Robot: A Review. , 2019, , .		0
75	A Multi-sensor Fusion Approach for Intention Detection. Biosystems and Biorobotics, 2019, , 454-458.	0.3	0
76	KDLPCCA-Based Projection for Feature Extraction in SSVEP-Based Brain-Computer Interfaces. Journal of Shanghai Jiaotong University (Science), 0, , 1.	0.9	0
77	Iterative Impedance Learning Control for Ankle Rehabilitation. , 2021, , .		0