Sen Qiu

List of Publications by Year
in descending order

58 papers	1,770 citations	331538 21 h-index	276775 41 g-index
60 all docs	60 docs citations	60 times ranked	1262 citing authors

#	Article	IF	Citations
1	Multi-sensor information fusion based on machine learning for real applications in human activity recognition: State-of-the-art and research challenges. Information Fusion, 2022, 80, 241-265.	11.7	264
2	Stance-Phase Detection for ZUPT-Aided Foot-Mounted Pedestrian Navigation System. IEEE/ASME Transactions on Mechatronics, 2015, 20, 3170-3181.	3.7	153
3	Inertial/magnetic sensors based pedestrian dead reckoning by means of multi-sensor fusion. Information Fusion, 2018, 39, 108-119.	11.7	147
4	Using Distributed Wearable Sensors to Measure and Evaluate Human Lower Limb Motions. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 939-950.	2.4	125
5	Adaptive gait detection based on foot-mounted inertial sensors and multi-sensor fusion. Information Fusion, 2019, 52, 157-166.	11.7	104
6	Heading Drift Reduction for Foot-Mounted Inertial Navigation System via Multi-Sensor Fusion and Dual-Gait Analysis. IEEE Sensors Journal, 2019, 19, 8514-8521.	2.4	71
7	Sensor network oriented human motion capture via wearable intelligent system. International Journal of Intelligent Systems, 2022, 37, 1646-1673.	3.3	68
8	Sensor Combination Selection Strategy for Kayak Cycle Phase Segmentation Based on Body Sensor Networks. IEEE Internet of Things Journal, 2022, 9, 4190-4201.	5.5	59
9	MEMS Inertial Sensors Based Gait Analysis for Rehabilitation Assessment via Multi-Sensor Fusion. Micromachines, 2018, 9, 442.	1.4	51
10	Using Body-Worn Sensors for Preliminary Rehabilitation Assessment in Stroke Victims With Gait Impairment. IEEE Access, 2018, 6, 31249-31258.	2.6	47
11	Inertial Sensor-Based Analysis of Equestrian Sports Between Beginner and Professional Riders Under Different Horse Gaits. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2692-2704.	2.4	47
12	Using Wearable Sensors to Capture Posture of the Human Lumbar Spine in Competitive Swimming. IEEE Transactions on Human-Machine Systems, 2019, 49, 194-205.	2.5	39
13	Quantitative assessment of dual gait analysis based on inertial sensors with body sensor network. Sensor Review, 2013, 33, 48-56.	1.0	37
14	A system of human vital signs monitoring and activity recognition based on body sensor network. Sensor Review, 2014, 34, 42-50.	1.0	37
15	A sensor-to-segment calibration method for motion capture system based on low cost MIMU. Measurement: Journal of the International Measurement Confederation, 2019, 131, 490-500.	2.5	36
16	Body Sensor Network-Based Gait Quality Assessment for Clinical Decision-Support via Multi-Sensor Fusion. IEEE Access, 2019, 7, 59884-59894.	2.6	36
17	Pedestrian Dead Reckoning Using Pocket-Worn Smartphone. IEEE Access, 2019, 7, 91063-91073.	2.6	33
18	IMU-based gait analysis for rehabilitation assessment of patients with gait disorders. , 2017, , .		31

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19	Smartphone-Based 3D Indoor Pedestrian Positioning through Multi-Modal Data Fusion. Sensors, 2019, 19, 4554.	2.1	30
20	Body Sensor Network-Based Robust Gait Analysis: Toward Clinical and at Home Use. IEEE Sensors Journal, 2019, 19, 8393-8401.	2.4	28
21	Towards Wearable-Inertial-Sensor-Based Gait Posture Evaluation for Subjects with Unbalanced Gaits. Sensors, 2020, 20, 1193.	2.1	28
22	Driving Behavior Tracking and Recognition Based on Multisensors Data Fusion. IEEE Sensors Journal, 2020, 20, 10811-10823.	2.4	26
23	Ambulatory Human Gait Phase Detection Using Wearable Inertial Sensors and Hidden Markov Model. Sensors, 2021, 21, 1347.	2.1	22
24	Swimming Stroke Phase Segmentation Based on Wearable Motion Capture Technique. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8526-8538.	2.4	21
25	Canoeing Motion Tracking and Analysis via Multi-Sensors Fusion. Sensors, 2020, 20, 2110.	2.1	20
26	Using Body Sensor Network to Measure the Effect of Rehabilitation Therapy on Improvement of Lower Limb Motor Function in Children With Spastic Diplegia. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9215-9227.	2.4	19
27	Paddle Stroke Analysis for Kayakers Using Wearable Technologies. Sensors, 2021, 21, 914.	2.1	18
28	Real-Time Human Motion Capture Based on Wearable Inertial Sensor Networks. IEEE Internet of Things Journal, 2022, 9, 8953-8966.	5.5	18
29	Table Tennis Stroke Recognition Based on Body Sensor Network. Lecture Notes in Computer Science, 2019, , 1-10.	1.0	15
30	Ambulatory estimation of 3D walking trajectory and knee joint angle using MARG Sensors. , 2014, , .		14
31	Swimming Motion Analysis and Posture Recognition Based on Wearable Inertial Sensors. , 2019, , .		14
32	A selection framework of sensor combination feature subset for human motion phase segmentation. Information Fusion, 2021, 70, 1-11.	11.7	13
33	Real-Time Hand Gesture Tracking for Humanâ€“Computer Interface Based on Multi-Sensor Data Fusion. IEEE Sensors Journal, 2021, 21, 26642-26654.	2.4	13
34	Motion Analysis of Deadlift for Trainers With Different Levels Based on Body Sensor Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	10
35	Heterogeneous data fusion for three-dimensional gait analysis using wearable MARG sensors. International Journal of Computational Science and Engineering, 2017, 14, 222.	0.4	9
36	Machine Learning Based Healthcare System for Investigating the Association Between Depression and Quality of Life. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2008-2019.	3.9	9

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37	Multi-body sensor data fusion to evaluate the hippotherapy for motor ability improvement in children with cerebral palsy. Information Fusion, 2021, 70, 115-128.	11.7	8
38	Study on Horse-Rider Interaction Based on Body Sensor Network in Competitive Equitation. IEEE Transactions on Affective Computing, 2022, 13, 553-567.	5.7	7
39	Evolution of Microstructure at the Surface of 40CrNiMo7 Steel Treated by High-Current Pulsed Electron Beam. Coatings, 2020, 10, 311.	1.2	7
40	Modulation recognition method of satellite communication based on CLDNN model. , 2021, , .		6
41	Human motion phase segmentation based on three new features. , 2016, , .		5
42	Gaitsense: A Potential Assistance for Physical Rehabilitation by Means of Wearable Sensors. , 2017, , .		3
43	Quantitative Analysis of Abnormal and Normal Gait based on Inertial Sensors. , 2018, , .		2
44	Using Distributed Wearable Inertial Sensors to Measure and Evaluate the Motions of Children with Cerebral Palsy in Hippotherapy. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 332-346.	0.2	2
45	Group Walking Recognition Based on Smartphone Sensors. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 91-102.	0.2	2
46	An improved six-position calibration method of accelerometer. , 2021, , .		2
47	Gait Analysis for Physical Rehabilitation via Body-Worn Sensors and Multi-information Fusion. Internet of Things, 2019, , 139-148.	1.3	2
48	Networked gesture tracking system based on immersive real-time interaction. , 2017, , .		1
49	Study on the attitude of equestrian sport based on body sensor network. , 2017, , .		1
50	Evaluation of Inertial Sensor Configurations for Wearable Gait Analysis. Studies in Computational Intelligence, 2020, , 197-212.	0.7	1
51	Towards Body Sensor Network Based Gait Abnormality Evaluation for Stroke Survivors. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 103-113.	0.2	1
52	Calibration of Smartphone's Integrated Magnetic and Inertial Measurement Units. , 2021, , .		1
53	A two-step shapelets based framework for interactional activities recognition. Multimedia Tools and Applications, 2022, 81, 17595-17614.	2.6	1
54	An improved particle filter for multi-feature tracking application. , 2012, , .		0

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55	A Multi-Featured Analysis for Body Sensor Networks-based Affective Actions Recognition. , 2019, , .		0
56	Performance Characterization of Foot-Mounted Gait Analysis Systems and Related Systems*. , 2019, , .		0
57	Affective actions recognition in dyadic interactions based on generative and discriminative models. Sensor Review, 2020, 40, 605-615.	1.0	0
58	Applications of MEMS Gyroscope for Human Gait Analysis. , 2020, , .		0