Bor-Shing Lin

List of Publications by Year
in descending order

69 papers	932 citations	567281 15 h-index	501196 28 g-index
70 all docs	70 docs citations	70 times ranked	1037 citing authors

#	Article	IF	Citations
1	Wearable Electrical Impedance Tomography Belt With Dry Electrodes. IEEE Transactions on Biomedical Engineering, 2022, 69, 955-962.	4.2	3
2	Fall Detection System With Artificial Intelligence-Based Edge Computing. IEEE Access, 2022, 10, 4328-4339.	4.2	12
3	Use of Functional Data to Model the Trajectory of an IMU and Classify Levels of Motor Impairment for Stroke Patients. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, PP, 1-1.	4.9	4
4	Smart Blood Vessel Detection System for Laparoscopic Surgery. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-7.	3.7	2
5	Oxygen Consumption (VO2) and Surface Electromyography (sEMG) during Moderate-Strength Training Exercises. International Journal of Environmental Research and Public Health, 2022, 19, 2233.	2.6	1
6	Effects of paired stimulation with specific waveforms on cortical and spinal plasticity in subjects with a chronic spinal cord injury. Journal of the Formosan Medical Association, 2022, 121, 2044-2056.	1.7	5
7	Residual Neural Network and Long Short-Term Memory–Based Algorithm for Estimating the Motion Trajectory of Inertial Measurement Units. IEEE Sensors Journal, 2022, 22, 6910-6919.	4.7	7
8	Assessment System for Predicting Maximal Safe Range for Heel Height by Using Force-Sensing Resistor Sensors and Regression Models. Sensors, 2022, 22, 3442.	3.8	3
9	Designing and Pilot Testing a Novel Transcranial Temporal Interference Stimulation Device for Neuromodulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1483-1493.	4.9	3
10	Safety of Special Waveform of Transcranial Electrical Stimulation (TES): In Vivo Assessment. International Journal of Molecular Sciences, 2022, 23, 6850.	4.1	5
11	Design of SSVEP Enhancement-Based Brain Computer Interface. IEEE Sensors Journal, 2021, 21, 14330-14338.	4.7	8
12	Design of a Novel Paired Associative Nerve Stimulation System and Treatment Strategy for Incomplete Spinal Cord Injury: A Preliminary Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1341-1349.	4.9	6
13	Artificial Intelligence-Based Assessment System for Evaluating Suitable Range of Heel Height. IEEE Access, 2021, 9, 38374-38385.	4.2	4
14	Design of Smart Peripheral Blood Perfusion Monitoring System for Diabetics. IEEE Sensors Journal, 2021, 21, 10167-10173.	4.7	6
15	Depth-Camera Based Energy Expenditure Estimation System for Physical Activity Using Posture Classification Algorithm. Sensors, 2021, 21, 4216.	3.8	5
16	Modeling of Metabolic Equivalents (METs) during Moderate Resistance Training Exercises. Applied Sciences (Switzerland), 2021, 11, 8773.	2.5	3
17	Recovery Evaluation System of Bowel Functions Following Orthopedic Surgery and Gastrointestinal Endoscopy. IEEE Access, 2021, 9, 67829-67837.	4.2	2
18	A Smart Parametric 3D Printing Hand Assistive Device With a Practical Physically Intervention Feedback Based on the Embedded IMU Sensor. IEEE Access, 2021, 9, 140456-140469.	4.2	1

#	ARTICLE	IF	CITATIONS
19	Steganography in RGB Images Using Adjacent Mean. IEEE Access, 2021, 9, 164256-164274.	4.2	2
20	The impact of aging and reaching movements on grip stability control during manual precision tasks. BMC Geriatrics, 2021, 21, 703.	2.7	4
21	Novel Assembled Sensorized Glove Platform for Comprehensive Hand Function Assessment by Using Inertial Sensors and Force Sensing Resistors. IEEE Sensors Journal, 2020, 20, 3379-3389.	4.7	26
22	Using Deep Learning in Ultrasound Imaging of Bicipital Peritendinous Effusion to Grade Inflammation Severity. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1037-1045.	6.3	7
23	Depth-Camera-Based System for Estimating Energy Expenditure of Physical Activities in Gyms. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1086-1095.	6.3	14
24	A Modular Data Glove System for Finger and Hand Motion Capture Based on Inertial Sensors. Journal of Medical and Biological Engineering, 2019, 39, 532-540.	1.8	36
25	An Assessment System for Post-Stroke Manual Dexterity Using Principal Component Analysis and Logistic Regression. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1626-1634.	4.9	11
26	Effects of Genital Nerve Stimulation Amplitude on Bladder Capacity in Spinal Cord Injured Subjects. Evidence-based Complementary and Alternative Medicine, 2019, 2019, 1-9.	1.2	2
27	Design of Wearable Headset with Steady State Visually Evoked Potential-Based Brain Computer Interface. Micromachines, 2019, 10, 681.	2.9	7
28	Wearable Cardiopulmonary Function Evaluation System for Six-Minute Walking Test. Sensors, 2019, 19, 4656.	3.8	8
29	Design of smart EEG cap. Computer Methods and Programs in Biomedicine, 2019, 178, 41-46.	4.7	6
30	Design of a Wearable 12-Lead Noncontact Electrocardiogram Monitoring System. Sensors, 2019, 19, 1509.	3.8	24
31	Data Hiding on Social Media Communications Using Text Steganography. Lecture Notes in Computer Science, 2018, , 217-224.	1.3	5
32	Design of an Inertial-Sensor-Based Data Glove for Hand Function Evaluation. Sensors, 2018, 18, 1545.	3.8	66
33	Efficient Mobile Middleware for Seamless Communication of Prehospital Emergency Medicine. Advances in Intelligent Systems and Computing, 2018, , 147-156.	0.6	0
34	A Stereo Audio Steganography by Inserting Low-Frequency and Octave Equivalent Pure Tones. Advances in Intelligent Systems and Computing, 2018, , 244-253.	0.6	2
35	Development of Novel Lip-Reading Recognition Algorithm. IEEE Access, 2017, 5, 794-801.	4.2	15
36	The use of surface electromyography in dysphagia evaluation. Technology and Health Care, 2017, 25, 1025-1028.	1.2	6

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37	Design of wearable and wireless multi-parameter monitoring system for evaluating cardiopulmonary function. Medical Engineering and Physics, 2017, 47, 144-150.	1.7	12
38	Data Glove System Embedded With Inertial Measurement Units for Hand Function Evaluation in Stroke Patients. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2204-2213.	4.9	54
39	Design of Wearable Breathing Sound Monitoring System for Real-Time Wheeze Detection. Sensors, 2017, 17, 171.	3.8	83
40	Simple Smartphone-Based Guiding System for Visually Impaired People. Sensors, 2017, 17, 1371.	3.8	82
41	High-Capacity Data-Hiding Scheme on Synthesized Pitches Using Amplitude Enhancementâ€"A New Vision of Non-Blind Audio Steganography. Symmetry, 2017, 9, 92.	2.2	10
42	Automatic Wheezing Detection Using Speech Recognition Technique. Journal of Medical and Biological Engineering, 2016, 36, 545-554.	1.8	34
43	Low-power multi-standard Viterbi decoder for wireless communication applications. International Journal of Electronics Letters, 2016, 4, 228-238.	1.2	2
44	Development of a Wearable Motor-Imagery-Based Brainâ€"Computer Interface. Journal of Medical Systems, 2016, 40, 71.	3.6	26
45	A seamless ubiquitous emergency medical service for crisis situations. Computer Methods and Programs in Biomedicine, 2016, 126, 89-97.	4.7	6
46	Temporal and Spatial Denoising of Depth Maps. Sensors, 2015, 15, 18506-18525.	3.8	15
47	Automatic Wheezing Detection Based on Signal Processing of Spectrogram and Back-Propagation Neural Network. Journal of Healthcare Engineering, 2015, 6, 649-672.	1.9	34
48	Design of a Mobile Brain Computer Interface-Based Smart Multimedia Controller. Sensors, 2015, 15, 5518-5530.	3.8	14
49	Design and Implementation of a Set-Top Boxâ€"Based Homecare System Using Hybrid Cloud. Telemedicine Journal and E-Health, 2015, 21, 916-922.	2.8	5
50	An FPGA-Based Rapid Wheezing Detection System. International Journal of Environmental Research and Public Health, 2014, 11, 1573-1593.	2.6	28
51	Gait Recognition and Walking Exercise Intensity Estimation. International Journal of Environmental Research and Public Health, 2014, 11, 3822-3844.	2.6	5
52	Wireless monitoring system for oral-feeding evaluation of preterm infants. , 2014, , .		0
53	Improvement on a block-serial fully-overlapped QC-LDPC decoder for IEEE 802.11n. , 2014, , .		6
54	A dual-code-rate memoryless Viterbi decoder for wireless communication systems. , 2013, , .		1

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55	A Fall Detection System Based on Human Body Silhouette. , 2013, , .		10
56	Design of a (255, 239) Reed-Solomon decoder using a simplified step-by-step algorithm. , 2013, , .		2
57	A Seamless Ubiquitous Telehealthcare Tunnel. International Journal of Environmental Research and Public Health, 2013, 10, 3246-3262.	2.6	4
58	A seamless wireless network switching tunnel for ubiquitous healthcare environment. , 2012, , .		0
59	Brain Computer Interface-based Multimedia Controller. , 2012, , .		6
60	A Ubiquitous Scheme for a One-to-Many Switching Tunnel for Healthcare Utilization. , 2012, , .		0
61	Higher-Order-Statistics-Based Radial Basis Function Networks for Signal Enhancement. IEEE Transactions on Neural Networks, 2007, 18, 823-832.	4.2	39
62	A Functional Link Network With Higher Order Statistics for Signal Enhancement. IEEE Transactions on Signal Processing, 2006, 54, 4821-4826.	5.3	13
63	RTWPMS: A Real-Time Wireless Physiological Monitoring System. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 647-656.	3.2	78
64	WHEEZE RECOGNITION BASED ON 2D BILATERAL FILTERING OF SPECTROGRAM. Biomedical Engineering - Applications, Basis and Communications, 2006, 18, 128-137.	0.6	37
65	FUNCTIONAL LINK NETWORK WITH GENETIC ALGORITHM FOR EVOKED POTENTIALS. Biomedical Engineering - Applications, Basis and Communications, 2005, 17, 193-200.	0.6	0
66	Doppler shift measurements using Monte Carlo modeling. , 0, , .		0
67	Estimation of evoked potentials using high order statistics-based adaptive filter. , 0, , .		1
68	Ambient noise canceller in pulmonary sound using WHT transform domain adaptive filter. , 0, , .		1
69	Transform domain adaptive enhancement filter for evoked potential. , 0, , .		1