

Bor-Shing Lin

List of Publications by Year in descending order

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69
papers

932
citations

567281

15
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501196

28
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70
all docs

70
docs citations

70
times ranked

1037
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Wearable Breathing Sound Monitoring System for Real-Time Wheeze Detection. <i>Sensors</i> , 2017, 17, 171.	3.8	83
2	Simple Smartphone-Based Guiding System for Visually Impaired People. <i>Sensors</i> , 2017, 17, 1371.	3.8	82
3	RTWPMS: A Real-Time Wireless Physiological Monitoring System. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2006, 10, 647-656.	3.2	78
4	Design of an Inertial-Sensor-Based Data Glove for Hand Function Evaluation. <i>Sensors</i> , 2018, 18, 1545.	3.8	66
5	Data Glove System Embedded With Inertial Measurement Units for Hand Function Evaluation in Stroke Patients. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 2204-2213.	4.9	54
6	Higher-Order-Statistics-Based Radial Basis Function Networks for Signal Enhancement. <i>IEEE Transactions on Neural Networks</i> , 2007, 18, 823-832.	4.2	39
7	WHEEZE RECOGNITION BASED ON 2D BILATERAL FILTERING OF SPECTROGRAM. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2006, 18, 128-137.	0.6	37
8	A Modular Data Glove System for Finger and Hand Motion Capture Based on Inertial Sensors. <i>Journal of Medical and Biological Engineering</i> , 2019, 39, 532-540.	1.8	36
9	Automatic Wheezing Detection Based on Signal Processing of Spectrogram and Back-Propagation Neural Network. <i>Journal of Healthcare Engineering</i> , 2015, 6, 649-672.	1.9	34
10	Automatic Wheezing Detection Using Speech Recognition Technique. <i>Journal of Medical and Biological Engineering</i> , 2016, 36, 545-554.	1.8	34
11	An FPGA-Based Rapid Wheezing Detection System. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 1573-1593.	2.6	28
12	Development of a Wearable Motor-Imagery-Based Brain-Computer Interface. <i>Journal of Medical Systems</i> , 2016, 40, 71.	3.6	26
13	Novel Assembled Sensorized Glove Platform for Comprehensive Hand Function Assessment by Using Inertial Sensors and Force Sensing Resistors. <i>IEEE Sensors Journal</i> , 2020, 20, 3379-3389.	4.7	26
14	Design of a Wearable 12-Lead Noncontact Electrocardiogram Monitoring System. <i>Sensors</i> , 2019, 19, 1509.	3.8	24
15	Temporal and Spatial Denoising of Depth Maps. <i>Sensors</i> , 2015, 15, 18506-18525.	3.8	15
16	Development of Novel Lip-Reading Recognition Algorithm. <i>IEEE Access</i> , 2017, 5, 794-801.	4.2	15
17	Design of a Mobile Brain Computer Interface-Based Smart Multimedia Controller. <i>Sensors</i> , 2015, 15, 5518-5530.	3.8	14
18	Depth-Camera-Based System for Estimating Energy Expenditure of Physical Activities in Gyms. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 1086-1095.	6.3	14

#	ARTICLE	IF	CITATIONS
19	A Functional Link Network With Higher Order Statistics for Signal Enhancement. IEEE Transactions on Signal Processing, 2006, 54, 4821-4826.	5.3	13
20	Design of wearable and wireless multi-parameter monitoring system for evaluating cardiopulmonary function. Medical Engineering and Physics, 2017, 47, 144-150.	1.7	12
21	Fall Detection System With Artificial Intelligence-Based Edge Computing. IEEE Access, 2022, 10, 4328-4339.	4.2	12
22	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
23	A Fall Detection System Based on Human Body Silhouette. , 2013, , .		10
24	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
25	Wearable Cardiopulmonary Function Evaluation System for Six-Minute Walking Test. Sensors, 2019, 19, 4656.	3.8	8
26	Design of SSVEP Enhancement-Based Brain Computer Interface. IEEE Sensors Journal, 2021, 21, 14330-14338.	4.7	8
27	Design of Wearable Headset with Steady State Visually Evoked Potential-Based Brain Computer Interface. Micromachines, 2019, 10, 681.	2.9	7
28	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
29	Residual Neural Network and Long Short-Term Memoryâ€”Based Algorithm for Estimating the Motion Trajectory of Inertial Measurement Units. IEEE Sensors Journal, 2022, 22, 6910-6919.	4.7	7
30	Brain Computer Interface-based Multimedia Controller. , 2012, , .		6
31	Improvement on a block-serial fully-overlapped QC-LDPC decoder for IEEE 802.11n. , 2014, , .		6
32	A seamless ubiquitous emergency medical service for crisis situations. Computer Methods and Programs in Biomedicine, 2016, 126, 89-97.	4.7	6
33	The use of surface electromyography in dysphagia evaluation. Technology and Health Care, 2017, 25, 1025-1028.	1.2	6
34	Design of smart EEG cap. Computer Methods and Programs in Biomedicine, 2019, 178, 41-46.	4.7	6
35	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
36	Design of Smart Peripheral Blood Perfusion Monitoring System for Diabetics. IEEE Sensors Journal, 2021, 21, 10167-10173.	4.7	6

#	ARTICLE	IF	CITATIONS
37	Gait Recognition and Walking Exercise Intensity Estimation. International Journal of Environmental Research and Public Health, 2014, 11, 3822-3844.	2.6	5
38	Design and Implementation of a Set-Top Box-Based Homecare System Using Hybrid Cloud. Telemedicine Journal and E-Health, 2015, 21, 916-922.	2.8	5
39	Data Hiding on Social Media Communications Using Text Steganography. Lecture Notes in Computer Science, 2018, , 217-224.	1.3	5
40	Depth-Camera Based Energy Expenditure Estimation System for Physical Activity Using Posture Classification Algorithm. Sensors, 2021, 21, 4216.	3.8	5
41	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
42	Safety of Special Waveform of Transcranial Electrical Stimulation (TES): In Vivo Assessment. International Journal of Molecular Sciences, 2022, 23, 6850.	4.1	5
43	A Seamless Ubiquitous Telehealthcare Tunnel. International Journal of Environmental Research and Public Health, 2013, 10, 3246-3262.	2.6	4
44	Artificial Intelligence-Based Assessment System for Evaluating Suitable Range of Heel Height. IEEE Access, 2021, 9, 38374-38385.	4.2	4
45	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
46	The impact of aging and reaching movements on grip stability control during manual precision tasks. BMC Geriatrics, 2021, 21, 703.	2.7	4
47	Wearable Electrical Impedance Tomography Belt With Dry Electrodes. IEEE Transactions on Biomedical Engineering, 2022, 69, 955-962.	4.2	3
48	Modeling of Metabolic Equivalents (METs) during Moderate Resistance Training Exercises. Applied Sciences (Switzerland), 2021, 11, 8773.	2.5	3
49	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
50	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
51	Design of a (255, 239) Reed-Solomon decoder using a simplified step-by-step algorithm. , 2013, , .		2
52	Low-power multi-standard Viterbi decoder for wireless communication applications. International Journal of Electronics Letters, 2016, 4, 228-238.	1.2	2
53	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
54	Recovery Evaluation System of Bowel Functions Following Orthopedic Surgery and Gastrointestinal Endoscopy. IEEE Access, 2021, 9, 67829-67837.	4.2	2

#	ARTICLE	IF	CITATIONS
55	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
56	Steganography in RGB Images Using Adjacent Mean. IEEE Access, 2021, 9, 164256-164274.	4.2	2
57	Smart Blood Vessel Detection System for Laparoscopic Surgery. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-7.	3.7	2
58	Estimation of evoked potentials using high order statistics-based adaptive filter. , 0, , .		1
59	Ambient noise canceller in pulmonary sound using WHT transform domain adaptive filter. , 0, , .		1
60	Transform domain adaptive enhancement filter for evoked potential. , 0, , .		1
61	A dual-code-rate memoryless Viterbi decoder for wireless communication systems. , 2013, , .		1
62	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
63	Oxygen Consumption (VO ₂) and Surface Electromyography (sEMG) during Moderate-Strength Training Exercises. International Journal of Environmental Research and Public Health, 2022, 19, 2233.	2.6	1
64	Doppler shift measurements using Monte Carlo modeling. , 0, , .		0
65	FUNCTIONAL LINK NETWORK WITH GENETIC ALGORITHM FOR EVOKED POTENTIALS. Biomedical Engineering - Applications, Basis and Communications, 2005, 17, 193-200.	0.6	0
66	A seamless wireless network switching tunnel for ubiquitous healthcare environment. , 2012, , .		0
67	A Ubiquitous Scheme for a One-to-Many Switching Tunnel for Healthcare Utilization. , 2012, , .		0
68	Wireless monitoring system for oral-feeding evaluation of preterm infants. , 2014, , .		0
69	Efficient Mobile Middleware for Seamless Communication of Prehospital Emergency Medicine. Advances in Intelligent Systems and Computing, 2018, , 147-156.	0.6	0