Ming-Chun Huang

List of Publications by Year
in descending order

70 papers	1,675 citations	394421 19 h-index	361022 35 g-index
71 all docs	71 docs citations	71 times ranked	2103 citing authors

#	Article	IF	Citations
1	Smoking Cessation System for Preemptive Smoking Detection. IEEE Internet of Things Journal, 2022, 9, 3204-3214.	8.7	8
2	A progressive prediction model towards home-based stroke rehabilitation programs. Smart Health, 2022, 23, 100239.	3.2	4
3	Privacy computing using deep compression learning techniques for neural decoding. Smart Health, 2022, 23, 100229.	3.2	2
4	Transfer Learning Model Knowledge Across Multi-Sensors Locations Over Body Sensor Network. IEEE Sensors Journal, 2022, 22, 10663-10670.	4.7	3
5	A context-adaptive smoking cessation system using videos. Smart Health, 2021, 19, 100148.	3.2	1
6	Distributed Deep Learning Optimized System over the Cloud and Smart Phone Devices. IEEE Transactions on Mobile Computing, 2021, 20, 147-161.	5.8	16
7	Interpretable tropical cyclone intensity estimation using Dvorak-inspired machine learning techniques. Engineering Applications of Artificial Intelligence, 2021, 101, 104233.	8.1	13
8	Campus safety and the internet of wearable things: assessing student safety conditions on campus while riding a smart scooter. , 2021, , .		0
9	Ubiquitous Fall Hazard Identification With Smart Insole. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2768-2776.	6.3	14
10	Randomized controlled trial testing a video-text tobacco cessation intervention among economically disadvantaged African American adults.. Psychology of Addictive Behaviors, 2021, 35, 769-777.	2.1	4
11	Soft Sensing Model Visualization: Fine-tuning Neural Network from What Model Learned. , 2021, , .		7
12	Bring Gait Lab to Everyday Life: Gait Analysis in Terms of Activities of Daily Living. IEEE Internet of Things Journal, 2020, 7, 1298-1312.	8.7	44
13	Efficient mapping of crash risk at intersections with connected vehicle data and deep learning models. Accident Analysis and Prevention, 2020, 144, 105665.	5.7	23
14	<p>A Community and Technology-Based Approach for Hypertension Self-Management (COACHMAN) to Improve Blood Pressure Control in African Americans: Results from a Pilot Study</p>. Patient Preference and Adherence, 2020, Volume 14, 2301-2313.	1.8	11
15	GAM feature selection to discover predominant factors for mortality of weekend and weekday admission to the ICUs. Smart Health, 2020, 18, 100145.	3.2	1
16	Pain Marker Evaluation Application in Augmented Reality and Mobile Platforms. Computing in Science and Engineering, 2020, 22, 40-50.	1.2	0
17	Designing Deep Reinforcement Learning Systems for Musculoskeletal Modeling and Locomotion Analysis Using Wearable Sensor Feedback. IEEE Sensors Journal, 2020, 20, 9274-9282.	4.7	12
18	Wearable Computing With Distributed Deep Learning Hierarchy: A Study of Fall Detection. IEEE Sensors Journal, 2020, 20, 9408-9416.	4.7	24

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19	Using Mobile Electroencephalography and Actigraphy to Diagnose Attention-Deficit/Hyperactivity Disorder: Case-Control Comparison Study. JMIR Mental Health, 2020, 7, e12158.	3.3	9
20	Use of the Phase-Based Model of Smoking Treatment to Guide Intervention Development for Persons Living with HIV Who Self-Identify as African American Tobacco Smokers. International Journal of Environmental Research and Public Health, 2019, 16, 1703.	2.6	3
21	Smart Insole-Based Indoor Localization System for Internet of Things Applications. IEEE Internet of Things Journal, 2019, 6, 7253-7265.	8.7	29
22	Cooperative Sensing and Wearable Computing for Sequential Hand Gesture Recognition. IEEE Sensors Journal, 2019, 19, 5775-5783.	4.7	52
23	Medical image learning from a few/few training samples: Melanoma segmentation study. Smart Health, 2019, 14, 100088.	3.2	7
24	Hidden Smile Correlation Discovery Across Subjects Using Random Walk with Restart. IEEE Transactions on Affective Computing, 2019, 10, 76-84.	8.3	1
25	The Smart Insole: A Pilot Study of Fall Detection. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 37-49.	0.3	6
26	Food Nutrition Visualization on Google Glass: Design Tradeoff and Field Evaluation. IEEE Consumer Electronics Magazine, 2018, 7, 21-31.	2.3	30
27	Customizable Pressure Sensor Array: Design and Evaluation. IEEE Sensors Journal, 2018, 18, 6337-6344.	4.7	45
28	ZnO Nanowall Networks for Sensor Devices: From Hydrothermal Synthesis to Device Demonstration. ECS Journal of Solid State Science and Technology, 2018, 7, Q3114-Q3119.	1.8	6
29	Smart Prosthesis System: Continuous Automatic Prosthesis Fitting Adjustment and Real-time Stress Visualization. , 2018, , .		3
30	Are you smoking? Automatic alert system helping people keep away from cigarettes. Smart Health, 2018, 9-10, 158-169.	3.2	17
31	Does background really matter? Worker activity recognition in unconstrained construction environment. , 2018, , .		1
32	Online learning classifier based behavioral biometrie authentication. , 2018, , .		6
33	Risk factors identification and visualization for work-related musculoskeletal disorders with wearable and connected gait analytics system and kinect skeleton models. Smart Health, 2018, 7-8, 60-77.	3.2	19
34	An â€œInternet of Earsâ€•for crowd-aware smart buildings based on sparse sensor networks. , 2017, , .		8
35	Risk Factors Identification for Work-Related Musculoskeletal Disorders with Wearable and Connected Gait Analytics System. , 2017, , .		7
36	emphaSSL: Towards Emphasis as a Mechanism to Harden Networking Security in Android Apps. , 2016, , .		3

#	Article	IF	Citations
37	A Collaborative Privacy-Preserving Deep Learning System in Distributed Mobile Environment. , 2016, , .		28
38	Tidal Volume Estimation Using Portable Ultrasound Imaging System. IEEE Sensors Journal, 2016, 16, 9014-9020.	4.7	6
39	Body-Earth Mover's Distance: A Matching-Based Approach for Sleep Posture Recognition. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 1023-1035.	4.0	41
40	A Self-Calibrating Radar Sensor System for Measuring Vital Signs. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 352-363.	4.0	67
41	Asthma Pattern Identification via Continuous Diaphragm Motion Monitoring. IEEE Transactions on Multi-Scale Computing Systems, 2015, 1, 76-84.	2.4	12
42	An Energy-Efficient Adaptive Sensing Framework for Gait Monitoring Using Smart Insole. IEEE Sensors Journal, 2015, 15, 2335-2343.	4.7	34
43	FridgeNet: A Nutrition and Social Activity Promotion Platform for Aging Populations. IEEE Intelligent Systems, 2015, 30, 23-30.	4.0	7
44	BreathSens: A Continuous On-Bed Respiratory Monitoring System With Torso Localization Using an Unobtrusive Pressure Sensing Array. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1682-1688.	6.3	39
45	TOTAL HEALTH: Toward Continuous Personal Monitoring. Smart Sensors, Measurement and Instrumentation, 2015, , 37-56.	0.6	7
46	Acu Glass: Quantifying Acupuncture Therapy using Google Glass. , 2015, , .		12
47	A smart phone based gait monitor system. , 2015, , .		0
48	Bodypart localization for pressure ulcer prevention. , 2014, 2014, 766-9.		23
49	Designing a Robust Activity Recognition Framework for Health and Exergaming Using Wearable Sensors. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1636-1646.	6.3	85
50	EZwakeup. , 2014, , .		3
51	Machine learning-based assessment tool for imbalance and vestibular dysfunction with virtual reality rehabilitation system. Computer Methods and Programs in Biomedicine, 2014, 116, 311-318.	4.7	41
52	Using Pressure Map Sequences for Recognition of On Bed Rehabilitation Exercises. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 411-418.	6.3	20
53	Unobtrusive Sleep Stage Identification Using a Pressure-Sensitive Bed Sheet. IEEE Sensors Journal, 2014, 14, 2092-2101.	4.7	64
54	Intelligent Frozen Shoulder Rehabilitation. IEEE Intelligent Systems, 2014, 29, 22-28.	4.0	26

#	ARTICLE	IF	CITATIONS
55	Sleep posture analysis using a dense pressure sensitive bedsheet. Pervasive and Mobile Computing, 2014, 10, 34-50.	3.3	58
56	A dense pressure sensitive bedsheet design for unobtrusive sleep posture monitoring. , 2013, , .		66
57	Robust human intensity-varying activity recognition using Stochastic Approximation in wearable sensors. , 2013, , .		17
58	On-bed monitoring for range of motion exercises with a pressure sensitive bedsheet. , 2013, , .		6
59	Rapid electrochemical detection on a mobile phone. Lab on A Chip, 2013, 13, 2950.	6.0	236
60	Inconspicuous on-bed respiratory rate monitoring. , 2013, , .		15
61	mCOPD. , 2013, , .		10
62	eCushion: A Textile Pressure Sensor Array Design and Calibration for Sitting Posture Analysis. IEEE Sensors Journal, 2013, 13, 3926-3934.	4.7	147
63	See UV on Your Skin: An Ultraviolet Sensing and Visualization System. , 2013, , .		12
64	Proper Running Posture Guide: A Wearable Biomechanics Capture System. , 2013, , .		0
65	Inconspicuous Personal Computer Protection with Touch-Mouse. Lecture Notes in Computer Science, 2013, , 29-38.	1.3	3
66	SmartGlove for upper extremities rehabilitative gaming assessment. , 2012, , .		20
67	Smart insole. , 2012, , .		72
68	Gaming for upper extremities rehabilitation. , 2011, , .		19
69	eCushion: An eTextile Device for Sitting Posture Monitoring. , 2011, , .		37
70	Experimental analysis of IEEE 802.15.4 for on/off body communications. , 2011, , .		3