

Ming-Chun Huang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3482005/publications.pdf>

Version: 2024-02-01

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	Rapid electrochemical detection on a mobile phone. Lab on A Chip, 2013, 13, 2950.	6.0	236
2	eCushion: A Textile Pressure Sensor Array Design and Calibration for Sitting Posture Analysis. IEEE Sensors Journal, 2013, 13, 3926-3934.	4.7	147
3	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
4	Smart insole. , 2012, , .		72
5	A Self-Calibrating Radar Sensor System for Measuring Vital Signs. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 352-363.	4.0	67
6	A dense pressure sensitive bedsheet design for unobtrusive sleep posture monitoring. , 2013, , .		66
7	Unobtrusive Sleep Stage Identification Using a Pressure-Sensitive Bed Sheet. IEEE Sensors Journal, 2014, 14, 2092-2101.	4.7	64
8	Sleep posture analysis using a dense pressure sensitive bedsheet. Pervasive and Mobile Computing, 2014, 10, 34-50.	3.3	58
9	Cooperative Sensing and Wearable Computing for Sequential Hand Gesture Recognition. IEEE Sensors Journal, 2019, 19, 5775-5783.	4.7	52
10	Customizable Pressure Sensor Array: Design and Evaluation. IEEE Sensors Journal, 2018, 18, 6337-6344.	4.7	45
11	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
12	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
13	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
14	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
15	eCushion: An eTextile Device for Sitting Posture Monitoring. , 2011, , .		37
16	An Energy-Efficient Adaptive Sensing Framework for Gait Monitoring Using Smart Insole. IEEE Sensors Journal, 2015, 15, 2335-2343.	4.7	34
17	Food Nutrition Visualization on Google Glass: Design Tradeoff and Field Evaluation. IEEE Consumer Electronics Magazine, 2018, 7, 21-31.	2.3	30
18	Smart Insole-Based Indoor Localization System for Internet of Things Applications. IEEE Internet of Things Journal, 2019, 6, 7253-7265.	8.7	29

#	ARTICLE	IF	CITATIONS
19	A Collaborative Privacy-Preserving Deep Learning System in Distributed Mobile Environment. , 2016, , .		28
20	Intelligent Frozen Shoulder Rehabilitation. IEEE Intelligent Systems, 2014, 29, 22-28.	4.0	26
21	Wearable Computing With Distributed Deep Learning Hierarchy: A Study of Fall Detection. IEEE Sensors Journal, 2020, 20, 9408-9416.	4.7	24
22	Bodypart localization for pressure ulcer prevention. , 2014, 2014, 766-9.		23
23	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
24	SmartGlove for upper extremities rehabilitative gaming assessment. , 2012, , .		20
25	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
26	Gaming for upper extremities rehabilitation. , 2011, , .		19
27	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
28	Robust human intensity-varying activity recognition using Stochastic Approximation in wearable sensors. , 2013, , .		17
29	Are you smoking? Automatic alert system helping people keep away from cigarettes. Smart Health, 2018, 9-10, 158-169.	3.2	17
30	Distributed Deep Learning Optimized System over the Cloud and Smart Phone Devices. IEEE Transactions on Mobile Computing, 2021, 20, 147-161.	5.8	16
31	Inconspicuous on-bed respiratory rate monitoring. , 2013, , .		15
32	Ubiquitous Fall Hazard Identification With Smart Insole. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2768-2776.	6.3	14
33	Interpretable tropical cyclone intensity estimation using Dvorak-inspired machine learning techniques. Engineering Applications of Artificial Intelligence, 2021, 101, 104233.	8.1	13
34	Asthma Pattern Identification via Continuous Diaphragm Motion Monitoring. IEEE Transactions on Multi-Scale Computing Systems, 2015, 1, 76-84.	2.4	12
35	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
36	Acu Glass: Quantifying Acupuncture Therapy using Google Glass. , 2015, , .		12

#	ARTICLE	IF	CITATIONS
37	See UV on Your Skin: An Ultraviolet Sensing and Visualization System. , 2013, , .		12
38	<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
39	mCOPD. , 2013, , .		10
40	Using Mobile Electroencephalography and Actigraphy to Diagnose Attention-Deficit/Hyperactivity Disorder: Case-Control Comparison Study. JMIR Mental Health, 2020, 7, e12158.	3.3	9
41	An "Internet of Ears" for crowd-aware smart buildings based on sparse sensor networks. , 2017, , .		8
42	Smoking Cessation System for Preemptive Smoking Detection. IEEE Internet of Things Journal, 2022, 9, 3204-3214.	8.7	8
43	FridgeNet: A Nutrition and Social Activity Promotion Platform for Aging Populations. IEEE Intelligent Systems, 2015, 30, 23-30.	4.0	7
44	TOTAL HEALTH: Toward Continuous Personal Monitoring. Smart Sensors, Measurement and Instrumentation, 2015, , 37-56.	0.6	7
45	Risk Factors Identification for Work-Related Musculoskeletal Disorders with Wearable and Connected Gait Analytics System. , 2017, , .		7
46	Medical image learning from a few/few training samples: Melanoma segmentation study. Smart Health, 2019, 14, 100088.	3.2	7
47	Soft Sensing Model Visualization: Fine-tuning Neural Network from What Model Learned. , 2021, , .		7
48	On-bed monitoring for range of motion exercises with a pressure sensitive bedsheets. , 2013, , .		6
49	Tidal Volume Estimation Using Portable Ultrasound Imaging System. IEEE Sensors Journal, 2016, 16, 9014-9020.	4.7	6
50	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
51	Online learning classifier based behavioral biometric authentication. , 2018, , .		6
52	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
53	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
54	A progressive prediction model towards home-based stroke rehabilitation programs. Smart Health, 2022, 23, 100239.	3.2	4

#	ARTICLE	IF	CITATIONS
55	Experimental analysis of IEEE 802.15.4 for on/off body communications. , 2011, , .		3
56	EZwakeup. , 2014, , .		3
57	emphaSSL: Towards Emphasis as a Mechanism to Harden Networking Security in Android Apps. , 2016, , .		3
58	Smart Prosthesis System: Continuous Automatic Prosthesis Fitting Adjustment and Real-time Stress Visualization. , 2018, , .		3
59	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
60	Inconspicuous Personal Computer Protection with Touch-Mouse. Lecture Notes in Computer Science, 2013, , 29-38.	1.3	3
61	Transfer Learning Model Knowledge Across Multi-Sensors Locations Over Body Sensor Network. IEEE Sensors Journal, 2022, 22, 10663-10670.	4.7	3
62	Privacy computing using deep compression learning techniques for neural decoding. Smart Health, 2022, 23, 100229.	3.2	2
63	Does background really matter? Worker activity recognition in unconstrained construction environment. , 2018, , .		1
64	Hidden Smile Correlation Discovery Across Subjects Using Random Walk with Restart. IEEE Transactions on Affective Computing, 2019, 10, 76-84.	8.3	1
65	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
66	A context-adaptive smoking cessation system using videos. Smart Health, 2021, 19, 100148.	3.2	1
67	Pain Marker Evaluation Application in Augmented Reality and Mobile Platforms. Computing in Science and Engineering, 2020, 22, 40-50.	1.2	0
68	Campus safety and the internet of wearable things: assessing student safety conditions on campus while riding a smart scooter. , 2021, , .		0
69	Proper Running Posture Guide: A Wearable Biomechanics Capture System. , 2013, , .		0
70	A smart phone based gait monitor system. , 2015, , .		0