Sunghoon Ivan Lee

List of Publications by Year
in descending order

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39 papers	816 citations	594426 14 h-index	525903 26 g-index

43 all docs	43 docs citations	43 times ranked	1265 citing authors

#	Article	IF	Citations
1	Detection and Assessment of Point-to-Point Movements During Functional Activities Using Deep Learning and Kinematic Analyses of the Stroke-Affected Wrist. IEEE Journal of Biomedical and Health Informatics, 2024, 28, 1022-1030.	7.2	1
2	Towards Robotic Companions: Understanding Handler-Guide Dog Interactions for Informed Guide Dog Robot Design. , 2024, , 1-20.		20
3	Wearable-Based Kinematic Analysis of Upper-Limb Movements During Daily Activities Could Provide Insights into Stroke Survivorsâ€™ Motor Ability. Neurorehabilitation and Neural Repair, 2024, 38, 659-669.	3.6	1
4	Toward Wide-Area Contactless Wireless Sensing. IEEE/ACM Transactions on Networking, 2023, 31, 590-605.	4.7	4
5	PowerPhone: Unleashing the Acoustic Sensing Capability of Smartphones. , 2023, , .		12
6	Ubiquitous Smartphone-Based Respiration Sensing With Wi-Fi Signal. IEEE Internet of Things Journal, 2022, 9, 1479-1490.	9.3	24
7	Estimating Ground Reaction Force and Center of Pressure Using Low-Cost Wearable Devices. IEEE Transactions on Biomedical Engineering, 2022, 69, 1461-1468.	4.5	30
8	Analysis of Gait Sub-Movements to Estimate Ataxia Severity Using Ankle Inertial Data. IEEE Transactions on Biomedical Engineering, 2022, 69, 2314-2323.	4.5	14
9	A Kinematic Data-Driven Approach to Differentiate Involuntary Choreic Movements in Individuals With Neurological Conditions. IEEE Transactions on Biomedical Engineering, 2022, 69, 3784-3791.	4.5	6
10	Predicting and Monitoring Upper-Limb Rehabilitation Outcomes Using Clinical and Wearable Sensor Data in Brain Injury Survivors. IEEE Transactions on Biomedical Engineering, 2021, 68, 1871-1881.	4.5	28
11	Enabling Batteryless Wearable Devices by Transferring Power Through The Human Body. GetMobile (New York, N Y), 2021, 24, 30-34.	1.1	1
12	Decomposition of Reaching Movements Enables Detection and Measurement of Ataxia. Cerebellum, 2021, 20, 811-822.	2.1	39
13	Estimating the Quality of Reaching Movements in Stroke Survivors. , 2021, 3, 1-4.		2
14	LIDS: Mobile System to Monitor Type and Volume of Liquid Intake. IEEE Sensors Journal, 2021, 21, 20750-20763.	4.5	2
15	Effectiveness of a Serious Game for Cognitive Training in Chronic Stroke Survivors with Mild-to-Moderate Cognitive Impairment: A Pilot Randomized Controlled Trial. Applied Sciences (Switzerland), 2020, 10, 6703.	2.6	14
16	Can mHealth Technology Help Mitigate the Effects of the COVID-19 Pandemic?. IEEE Open Journal of Engineering in Medicine and Biology, 2020, 1, 243-248.	2.5	70
17	A Simple Low-Cost Wearable Sensor for Long-Term Ambulatory Monitoring of Knee Joint Kinematics. IEEE Transactions on Biomedical Engineering, 2020, 67, 3483-3490.	4.5	23
18	Estimating Upper-Limb Impairment Level in Stroke Survivors Using Wearable Inertial Sensors and a Minimally-Burdensome Motor Task. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 601-611.	5.7	46

#	Article	IF	Citations
19	Rehabilitation Games in Real-World Clinical Settings. ACM Transactions on Computer-Human Interaction, 2020, 27, 1-43.	7.3	17
20	A Wearable RFID System to Monitor Hand Use for Individuals with Upper Limb Paresis. , 2019, 2, 1-4.		7
21	NOSE. , 2019, 3, 1-25.		3
22	SkinnyPower. , 2019, , .		27
23	Remote Assessment of Cognitive Impairment Level Based on Serious Mobile Game Performance: An Initial Proof of Concept. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1269-1277.	7.2	32
24	A novel upper-limb function measure derived from finger-worn sensor data collected in a free-living setting. PLoS ONE, 2019, 14, e0212484.	2.5	34
25	The Use of a Finger-Worn Accelerometer for Monitoring of Hand Use in Ambulatory Settings. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 599-606.	7.2	29
26	Towards the Design of a Ring Sensor-based mHealth System to Achieve Optimal Motor Function in Stroke Survivors. , 2019, 3, 1-26.		19
27	Enabling Stroke Rehabilitation in Home and Community Settings: A Wearable Sensor-Based Approach for Upper-Limb Motor Training. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-11.	5.3	80
28	Finger-Worn Sensors for Accurate Functional Assessment of the Upper Limbs in Real-World Settings. , 2018, 135, 4440-4443.		4
29	Towards the Ambulatory Assessment of Movement Quality in Stroke Survivors using a Wrist-worn Inertial Sensor. , 2018, 135, 2825-2828.		5
30	A Finger-Worn Ring Sensor to Capture Hand Movements in an Ambulatory Setting. Archives of Physical Medicine and Rehabilitation, 2017, 98, e26.	2.2	3
31	Using a Minimum Set of Wearable Sensors to Assess Quality of Movement in Stroke Survivors. , 2017, , .		7
32	An Overview of Smart Shoes in the Internet of Health Things: Gait and Mobility Assessment in Health Promotion and Disease Monitoring. Applied Sciences (Switzerland), 2017, 7, 986.	2.6	114
33	Using Wearable Motion Sensors to Estimate Longitudinal Changes in Movement Quality in Stroke and Traumatic Brain Injury Survivors Undergoing Rehabilitation. Archives of Physical Medicine and Rehabilitation, 2016, 97, e117.	2.2	8
34	User-optimized activity recognition for exergaming. Pervasive and Mobile Computing, 2016, 26, 3-16.	4.0	8
35	Objectively quantifying walking ability in degenerative spinal disorder patients using sensor equipped smart shoes. Medical Engineering and Physics, 2016, 38, 442-449.	2.4	36
36	A Prediction Model for Functional Outcomes in Spinal Cord Disorder Patients Using Gaussian Process Regression. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 91-99.	7.2	19

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37	Multiple model recognition for near-realistic exergaming. , 2015, , 140-148.		2
38	A Pervasive Assessment of Motor Function: A Lightweight Grip Strength Tracking System. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 1023-1030.	7.2	7
39	Using Intervention Mapping and Behavior Change Techniques to Develop a Digital Intervention for Self-Management in Stroke: Development Study. JMIR Human Factors, 0, 10, e45099.	2.9	7