Kathleen H Sienko

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60 859 18 27 g-index

76 1,092 3.4 4.3 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
60	Cell phone based balance trainer. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012 , 9, 10	5.3	96
59	Novice designers' use of prototypes in engineering design. <i>Design Studies</i> , 2017 , 51, 25-65	3.6	54
58	Artificial gravity: head movements during short-radius centrifugation. <i>Acta Astronautica</i> , 2001 , 49, 215	- 2<u>6</u>. 9	52
57	The effect of vibrotactile feedback on postural sway during locomotor activities. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013 , 10, 93	5.3	46
56	Biofeedback improves postural control recovery from multi-axis discrete perturbations. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012 , 9, 53	5.3	38
55	Determining the preferred modality for real-time biofeedback during balance training. <i>Gait and Posture</i> , 2013 , 37, 391-6	2.6	37
54	Directional postural responses induced by vibrotactile stimulations applied to the torso. <i>Experimental Brain Research</i> , 2012 , 222, 471-82	2.3	37
53	Assessment of vibrotactile feedback on postural stability during pseudorandom multidirectional platform motion. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 944-52	5	35
52	Effects of long-term balance training with vibrotactile sensory augmentation among community-dwelling healthy older adults: a randomized preliminary study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018 , 15, 5	5.3	34
51	Effects of biofeedback on secondary-task response time and postural stability in older adults. <i>Gait and Posture</i> , 2012 , 35, 523-8	2.6	32
50	Effects of multi-directional vibrotactile feedback on vestibular-deficient postural performance during continuous multi-directional support surface perturbations. <i>Journal of Vestibular Research:</i> Equilibrium and Orientation, 2008 , 18, 273-85	2.5	30
49	Configurable, wearable sensing and vibrotactile feedback system for real-time postural balance and gait training: proof-of-concept. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017 , 14, 102	5.3	29
48	Potential Mechanisms of Sensory Augmentation Systems on Human Balance Control. <i>Frontiers in Neurology</i> , 2018 , 9, 944	4.1	25
47	Adaptation of the vestibulo-ocular reflex, subjective tilt, and motion sickness to head movements during short-radius centrifugation. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2003 , 13, 65-77	2.5	25
46	Postural reorganization induced by torso cutaneous covibration. <i>Journal of Neuroscience</i> , 2013 , 33, 787	'0 666	19
45	Theoretical and experimental indicators of falls during pregnancy as assessed by postural perturbations. <i>Gait and Posture</i> , 2014 , 39, 218-23	2.6	18
44	The effects of actuator selection on non-volitional postural responses to torso-based vibrotactile stimulation. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013 , 10, 21	5.3	18

(2012-2015)

43	The effect of age on postural and cognitive task performance while using vibrotactile feedback. Journal of Neurophysiology, 2015 , 113, 2127-36	3.2	18
42	A cutaneous positioning system. <i>Experimental Brain Research</i> , 2015 , 233, 1237-45	2.3	15
41	The effects of attractive vs. repulsive instructional cuing on balance performance. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016 , 13, 29	5.3	15
40	Prototyping for context: exploring stakeholder feedback based on prototype type, stakeholder group and question type. <i>Research in Engineering Design - Theory, Applications, and Concurrent Engineering</i> , 2019 , 30, 453-471	3.5	15
39	Requirements Development: Approaches and Behaviors of Novice Designers. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2015 , 137,	3	13
38	Traditional male circumcision in Uganda: a qualitative focus group discussion analysis. <i>PLoS ONE</i> , 2012 , 7, e45316	3.7	13
37	Effects of long-term vestibular rehabilitation therapy with vibrotactile sensory augmentation for people with unilateral vestibular disorders - A randomized preliminary study. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2019 , 29, 323-334	2.5	12
36	Automatically Evaluating Balance: A Machine Learning Approach. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 179-186	4.8	11
35	Medical device landscape for communicable and noncommunicable diseases in low-income countries. <i>Globalization and Health</i> , 2018 , 14, 65	10	11
34	Motion sickness in passenger vehicles during test track operations. <i>Ergonomics</i> , 2019 , 62, 1357-1371	2.9	10
33	Reliability of Postural Sway Measures of Standing Balance Tasks. <i>Journal of Applied Biomechanics</i> , 2018 , 1-23	1.2	9
32	Deactivation of somatosensory and visual cortices during vestibular stimulation is associated with older age and poorer balance. <i>PLoS ONE</i> , 2019 , 14, e0221954	3.7	7
31	A shared neural integrator for human posture control. <i>Journal of Neurophysiology</i> , 2017 , 118, 894-903	3.2	6
30	Prototyping strategies for stakeholder engagement during front-end design: Design practitioners approaches in the medical device industry. <i>Design Studies</i> , 2020 , 71, 100977	3.6	5
29	Vibrotactile display design: Quantifying the importance of age and various factors on reaction times. <i>PLoS ONE</i> , 2019 , 14, e0219737	3.7	5
28	Obstetrics-based clinical immersion of a multinational team of biomedical engineering students in Ghana. <i>International Journal of Gynecology and Obstetrics</i> , 2014 , 127, 218-20	4	5
27	Cost effectiveness of medical devices to diagnose pre-eclampsia in low-resource settings. <i>Development Engineering</i> , 2017 , 2, 99-106	2.5	5
26	Comparison of non-volitional postural responses induced by two types of torso based vibrotactile stimulations 2012 ,		5

25	Global health front-end medical device design: The use of prototypes to engage stakeholders. <i>Development Engineering</i> , 2020 , 5, 100055	2.5	5
24	The Use of Vibrotactile Feedback During Dual-Task Standing Balance Conditions in People With Unilateral Vestibular Hypofunction. <i>Otology and Neurotology</i> , 2018 , 39, e349-e356	2.6	4
23	Investigating prototyping approaches of Ghanaian novice designers. Design Science, 2019, 5,	2.8	4
22	A mathematical model for incorporating biofeedback into human postural control. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2013 , 10, 14	5.3	4
21	Reliability and Validity of Ratings of Perceived Difficulty During Performance of Static Standing Balance Exercises. <i>Physical Therapy</i> , 2019 , 99, 1381-1393	3.3	3
20	Sensory garments with vibrotactile feedback for monitoring and informing seated posture 2019 ,		2
19	Development of culturally appropriate pictorial cards to facilitate maternal health histories in rural Ghana. <i>International Journal of Gynecology and Obstetrics</i> , 2013 , 123, 244-5	4	2
18	Determining inertial measurement unit placement for estimating human trunk sway while standing, walking and running. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	2
17	Age Differences in Vestibular Brain Connectivity Are Associated With Balance Performance. Frontiers in Aging Neuroscience, 2020 , 12, 566331	5.3	2
16	Defining and characterizing task-shifting medical devices. <i>Globalization and Health</i> , 2021 , 17, 60	10	2
15	Automated Loss-of-Balance Event Identification in Older Adults at Risk of Falls during Real-World Walking Using Wearable Inertial Measurement Units. <i>Sensors</i> , 2021 , 21,	3.8	2
14	Design and evaluation of a subcutaneous contraceptive implant training simulator. <i>International Journal of Gynecology and Obstetrics</i> , 2019 , 147, 36-42	4	1
13	Blood salvage device for use during ruptured ectopic pregnancy in low-resource countries. <i>International Journal of Gynecology and Obstetrics</i> , 2015 , 128, 74-5	4	1
12	Standing balance of vehicle passengers: The effect of vehicle motion, task performance on post-drive balance. <i>Gait and Posture</i> , 2020 , 82, 189-195	2.6	1
11	An in-depth investigation of student information gathering meetings with stakeholders and domain experts. <i>International Journal of Technology and Design Education</i> , 2020 , 1	1.1	1
10	Discrepancies between clinicians and rural healthcare workers regarding referral procedures based on blood pressure measurements. <i>International Journal of Gynecology and Obstetrics</i> , 2013 , 123, 246-7	4	1
9	Effects of co-vibrotactile stimulations around the torso on non-volitional postural responses. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012 , 2012, 6149-52	0.9	1
8	User-Based Design Approach to Develop a Traditional Adult Male Circumcision Device. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2013 , 7,	1.3	1

LIST OF PUBLICATIONS

7	Assessing the Usability of a Task-Shifting Device for Inserting Subcutaneous Contraceptive Implants for Use in Low-Income Countries. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2020 , 14,	1.3	1
6	Students' perceptions of the value of stakeholder engagement during engineering design. <i>Journal of Engineering Education</i> , 2020 , 109, 760-779	2.3	1
5	Preliminary clinical assessment of a task-shifting device for subcutaneous contraceptive implants. <i>International Journal of Gynecology and Obstetrics</i> , 2021 , 155, 159-161	4	1
4	Automatically evaluating balance using[machine[learning and data from a single inertial measurement unit. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2021 , 18, 114	5.3	O
3	Product representations in conjoint analysis in an LMIC setting: Comparing attribute valuation when three-dimensional physical prototypes are shown versus two-dimensional renderings. Development Engineering, 2021, 6, 100063	2.5	0
2	INITIAL CHARACTERIZATION OF NOVICE ENGINEERING DESIGNERS' CONSIDERATION OF CONTEXTUAL FACTORS. <i>Proceedings of the Design Society</i> , 2021 , 1, 1857-1866		
1	Reducing Slip Risk: A Feasibility Study of Gait Training with Semi-Real-Time Feedback of Foot E loor Contact Angle. <i>Sensors</i> , 2022 , 22, 3641	3.8	