

# Catherine Holloway

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

635  
citations

687363

13  
h-index

839539

18  
g-index

64  
all docs

64  
docs citations

64  
times ranked

552  
citing authors

#	ARTICLE	IF	CITATIONS
1	From HRI to CRI: Crowd Robot Interactionâ€”Understanding the Effect of Robots on Crowd Motion. <i>International Journal of Social Robotics</i> , 2022, 14, 631-643.	4.6	9
2	STEP-UP: Enabling Low-Cost IMU Sensors to Predict the Type of Dementia During Everyday Stair Climbing. <i>Frontiers in Computer Science</i> , 2022, 3, .	2.8	0
3	Estimating need and coverage for five priority assistive products: a systematic review of global population-based research. <i>BMJ Global Health</i> , 2022, 7, e007662.	4.7	9
4	Evaluating the use of a thermoplastic socket in Kenya: A pilot study. <i>Prosthetics and Orthotics International</i> , 2022, Publish Ahead of Print, .	1.0	0
5	Understanding Interactions for Smart Wheelchair Navigation in Crowds. , 2022, , .		8
6	Developing inclusive and resilient systems: COVID-19 and assistive technology. <i>Disability and Society</i> , 2021, 36, 151-154.	2.2	11
7	Powered attendant-propelled wheelchair with assist-as-needed control based on individual physical capabilities. <i>Journal of Biomechanical Science and Engineering</i> , 2021, 16, .	0.3	1
8	â€œGive Us the Chance to Be Part of You, We Want Our Voices to Be Heardâ€” Assistive Technology as a Mediator of Participation in (Formal and Informal) Citizenship Activities for Persons with Disabilities Who Are Slum Dwellers in Freetown, Sierra Leone. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5547.	2.6	10
9	â€œThis Is the Story of Community Leadership with Political Backing. (PM1)â€”Critical Junctures in Paralympic Legacy: Framing the London 2012 Disability Inclusion Model for New Global Challenges. <i>Sustainability</i> , 2021, 13, 9253.	3.2	4
10	Could Assistive Technology Provision Models Help Pave the Way for More Environmentally Sustainable Models of Product Design, Manufacture and Service in a Post-COVID World?. <i>Sustainability</i> , 2021, 13, 10867.	3.2	10
11	Critical Junctures in Assistive Technology and Disability Inclusion. <i>Sustainability</i> , 2021, 13, 12744.	3.2	2
12	Measuring assistive technology supply and demand: A scoping review. <i>Assistive Technology</i> , 2021, 33, S35-S49.	2.0	9
13	Introduction to the companion papers to the global report on assistive technology. <i>Assistive Technology</i> , 2021, 33, 1-2.	2.0	7
14	A review of innovation strategies and processes to improve access to AT: Looking ahead to open innovation ecosystems. <i>Assistive Technology</i> , 2021, 33, 68-86.	2.0	8
15	Disability Interactions: Creating Inclusive Innovations. <i>Synthesis Lectures on Human-Centered Informatics</i> , 2021, 14, i-198.	0.5	1
16	Understanding independent wheelchair transfers. Perspectives from stakeholders. <i>Disability and Rehabilitation: Assistive Technology</i> , 2020, 15, 545-552.	2.2	6
17	Does the setting matter? Observing wheelchair transfers across different environmental conditions. <i>Assistive Technology</i> , 2020, , 1-8.	2.0	1
18	COVID-19 as social disability: the opportunity of social empathy for empowerment. <i>BMJ Global Health</i> , 2020, 5, e003039.	4.7	12

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19	Neuroergonomic Assessment of Wheelchair Control Using Mobile fNIRS. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1488-1496.	4.9	6
20	The Digital and Assistive Technologies for Ageing initiative: learning from the GATE initiative. The Lancet Healthy Longevity, 2020, 1, e94-e95.	4.6	16
21	Value beyond function: analyzing the perception of wheelchair innovations in Kenya. , 2020, , .		13
22	Assistive Technology Use and Provision During COVID-19: Results From a Rapid Global Survey. International Journal of Health Policy and Management, 2020, , .	0.9	21
23	A Cross-Sectional Study Using Wireless Electrocardiogram to Investigate Physical Workload of Wheelchair Control in Real World Environments. Advances in Intelligent Systems and Computing, 2020, , 14-25.	0.6	1
24	A pilot study towards long-term thermal comfort research for lower-limb prosthesis wearers. Prosthetics and Orthotics International, 2019, 43, 47-54.	1.0	9
25	Detection and localisation of hesitant steps in people with Alzheimer's disease navigating routes of varying complexity. Healthcare Technology Letters, 2019, 6, 42-47.	3.3	11
26	Adjusted method to calculate an electric wheelchair power cycle: fuel cell implementation example. Journal of Energy Storage, 2019, 23, 371-380.	8.1	5
27	An investigation of factors affecting the performance of wheelchair transfers. Disability and Rehabilitation: Assistive Technology, 2019, 14, 479-488.	2.2	5
28	A systematic review: the influence of real time feedback on wheelchair propulsion biomechanics. Disability and Rehabilitation: Assistive Technology, 2018, 13, 47-53.	2.2	4
29	The effect of liner design and materials selection on prosthesis interface heat dissipation. Prosthetics and Orthotics International, 2018, 42, 275-279.	1.0	17
30	Towards a Wearable Wheelchair Monitor: Classification of Push Style Based on Inertial Sensors at Multiple Upper Limb Locations. , 2018, , .		3
31	Intersections Between Systems Thinking and Market Shaping for Assistive Technology: The SMART (Systems-Market for Assistive and Related Technologies) Thinking Matrix. International Journal of Environmental Research and Public Health, 2018, 15, 2627.	2.6	27
32	Navigational cue effects in Alzheimer's disease and posterior cortical atrophy. Annals of Clinical and Translational Neurology, 2018, 5, 697-709.	3.7	15
33	Effect of technique and transfer board use on the performance of wheelchair transfers. Healthcare Technology Letters, 2018, 5, 76-80.	3.3	5
34	Use of a Low-Cost, Chest-Mounted Accelerometer to Evaluate Transfer Skills of Wheelchair Users During Everyday Activities: Observational Study. JMIR Rehabilitation and Assistive Technologies, 2018, 5, e11748.	2.2	8
35	Characterization of Bespoke Force Sensors for Tailored Applications. IEEE Sensors Journal, 2017, 17, 1727-1734.	4.7	3
36	Exploring the pedestrian level of interaction on platform conflict areas at metro stations by real-scale laboratory experiments. Transportation Planning and Technology, 2017, 40, 100-118.	2.0	22

#	ARTICLE	IF	CITATIONS
37	"But, I Don't Want/Need a Power Wheelchair". , 2017, , .		12
38	Towards a Sensor-based System for Assessing and Monitoring Powered Mobility Skills in Children. , 2017, , .		0
39	Comparing shared control approaches for alternative interfaces: A wheelchair simulator experiment. , 2017, , .		18
40	Combined Effect of Platform Edge Doors and Level Access on Boarding and Alighting Process in London Underground. Transportation Research Record, 2017, 2648, 60-67.	1.9	8
41	Preparatory planning framework for Created Out of Mind: Shaping perceptions of dementia through art and science. Wellcome Open Research, 2017, 2, 108.	1.8	18
42	Mapping Spatiotemporal Patterns of Disabled People: The Case of the St. Judeâ€™s Storm Emergency. Advances in Geographic Information Science, 2017, , 97-113.	0.6	0
43	Editorial. Healthcare Technology Letters, 2016, 3, 253-253.	3.3	0
44	Sensewheel: an adjunct to wheelchair skills training. Healthcare Technology Letters, 2016, 3, 269-272.	3.3	1
45	Disrupting the world of Disability: The Next Generation of Assistive Technologies and Rehabilitation Practices. Healthcare Technology Letters, 2016, 3, 254-256.	3.3	24
46	A basic study on temporal parameter estimation of wheelchair propulsion based on measurement of upper limb movements using inertial sensors. , 2016, , .		1
47	Street rehab: Linking accessibility and rehabilitation. , 2016, 2016, 3167-3170.		9
48	Train design features affecting boarding and alighting of passengers. Journal of Advanced Transportation, 2016, 50, 2077-2088.	1.7	25
49	Impact of Platform Edge Doors on Passengersâ€™ Boarding and Alighting Time and Platform Behavior. Transportation Research Record, 2016, 2540, 102-110.	1.9	25
50	Characterisation of rollator use using inertial sensors. Healthcare Technology Letters, 2016, 3, 303-309.	3.3	9
51	AART-BC: A sensor system for monitoring Assistive Technology use beyond the clinic. , 2016, 2016, 3151-3154.		1
52	The ultimate wearable. , 2016, , .		4
53	Effect of vertical step height on boarding and alighting time of train passengers. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 1234-1241.	2.0	29
54	The Effect of Transport Accessibility on the Social Inclusion of Wheelchair Users: A Mixed Method Analysis. Social Inclusion, 2016, 4, 24-35.	0.9	37

#	ARTICLE	IF	CITATIONS
55	O4-03-06: Effects of cortical visual impairment on navigational ability in posterior cortical atrophy and typical Alzheimer's disease. , 2015, 11, P274-P274.		2
56	Propelling load of an attendant propelled wheelchair in ascending and descending. Journal of Biomechanical Science and Engineering, 2015, 10, 14-00439-14-00439.	0.3	3
57	Statically vs dynamically balanced gait: Analysis of a robotic exoskeleton compared with a human. , 2015, 2015, 6728-31.		63
58	Innovative strategies for urban car-sharing systems and a simulator to assess their performance. Transportation Planning and Technology, 2015, 38, 375-391.	2.0	11
59	A comparison between smartphone sensors and bespoke sensor devices for wheelchair accessibility studies. , 2015, , .		9
60	Time and force required for attendants boarding wheelchair users onto aircraft. International Journal of Industrial Ergonomics, 2015, 48, 167-173.	2.6	6
61	A micro-level approach to measuring the accessibility of footways for wheelchair users using the Capability Model. Transportation Planning and Technology, 2013, 36, 636-649.	2.0	16
62	Load on Shoulder and Elbow Joints During Autonomous Hand-Cycling. Journal of Biomechanical Science and Engineering, 2011, 6, 236-247.	0.3	1
63	The lived experience of people with upper limb absence living in Uganda: A qualitative study. African Journal of Disability, 0, 11, .	1.6	4