

# Kyle B Reed

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7587510/publications.pdf>

Version: 2024-02-01

78  
papers

1,610  
citations

840776

11  
h-index

434195

31  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1125  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanics of Flexible Needles Robotically Steered through Soft Tissue. International Journal of Robotics Research, 2010, 29, 1640-1660.	8.5	251
2	Physical Collaboration of Human-Human and Human-Robot Teams. IEEE Transactions on Haptics, 2008, 1, 108-120.	2.7	185
3	Robot-Assisted Needle Steering. IEEE Robotics and Automation Magazine, 2011, 18, 35-46.	2.0	146
4	Haptically Linked Dyads. Psychological Science, 2006, 17, 365-366.	3.3	122
5	Modeling and Control of Needles With Torsional Friction. IEEE Transactions on Biomedical Engineering, 2009, 56, 2905-2916.	4.2	85
6	Needle-tissue interaction forces for bevel-tip steerable needles. , 2008, , 224-231.		74
7	Robotic Needle Steering: Design, Modeling, Planning, and Image Guidance. , 2011, , 557-582.		74
8	Integrated planning and image-guided control for planar needle steering. , 2008, 2008, 819-824.		71
9	Haptic cooperation between people, and between people and machines. , 2006, , .		50
10	Observations and models for needle-tissue interactions. , 2009, , .		41
11	Evaluation of robotic needle steering in ex vivo tissue. , 2010, 2010, 2068-2073.		37
12	Walking assistance using crutches: A state of the art review. Journal of Biomechanics, 2020, 98, 109489.	2.1	34
13	Replicating Human-Human Physical Interaction. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	26
14	Perception of gait patterns that deviate from normal and symmetric biped locomotion. Frontiers in Psychology, 2015, 6, 199.	2.1	22
15	Comparing Gait with Multiple Physical Asymmetries Using Consolidated Metrics. Frontiers in Neurobotics, 2018, 12, 2.	2.8	22
16	Controlling a robotically steered needle in the presence of torsional friction. , 2009, , 3476-3481.		19
17	Perceived Cooling Using Asymmetrically-Applied Hot and Cold Stimuli. IEEE Transactions on Haptics, 2017, 10, 75-83.	2.7	19
18	Relearning functional and symmetric walking after stroke using a wearable device: a feasibility study. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 106.	4.6	19

#	ARTICLE	IF	CITATIONS
19	Estimation of model parameters for steerable needles. , 2010, , 3703-3708.		18
20	Symmetric motions for bimanual rehabilitation. , 2010, , .		16
21	A novel telerobotic method for human-in-the-loop assisted grasping based on intention recognition. , 2014, , .		16
22	Asymmetric passive dynamic walker. , 2011, 2011, 5975465.		15
23	Prosthesis design based on an asymmetric passive dynamic walker. , 2012, , .		14
24	Compensating for torsion windup in steerable needles. , 2008, 2008, 936-941.		12
25	Observations of needle-tissue interactions. , 2009, 2009, 262-5.		12
26	Design and Pilot Study of a Gait Enhancing Mobile Shoe. Paladyn, 2011, 2, 193-201.	2.7	12
27	Simultaneous Perception of Forces and Motions Using Bimanual Interactions. IEEE Transactions on Haptics, 2012, 5, 220-230.	2.7	12
28	Wearable gait device for stroke gait rehabilitation at home. Topics in Stroke Rehabilitation, 2021, 28, 443-455.	1.9	12
29	Novel passive ankle-foot prosthesis mimics able-bodied ankle angles and ground reaction forces. Clinical Biomechanics, 2020, 72, 202-210.	1.2	11
30	Validation of a passive dynamic walker model for human gait analysis. , 2013, 2013, 6945-8.		10
31	Gait enhancing mobile shoe (GEMS) for rehabilitation. , 2009, , .		9
32	Motion controlled gait enhancing mobile shoe for rehabilitation. , 2011, 2011, 5975417.		9
33	Developing a Gait Enhancing Mobile Shoe to alter over-ground walking coordination. , 2012, 2012, 4124-4129.		9
34	Combined effects of leg length discrepancy and the addition of distal mass on gait asymmetry. Gait and Posture, 2017, 58, 487-492.	1.4	9
35	Evaluation of 3D printed anatomically scalable transfemoral prosthetic knee. , 2017, 2017, 1160-1164.		9
36	Asymmetrically-applied hot and cold stimuli gives perception of constant heat. , 2017, , .		9

#	ARTICLE	IF	CITATIONS
37	Comparison of the passive dynamics of walking on ground, tied-belt and split-belt treadmills, and via the Gait Enhancing Mobile Shoe (GEMS). , 2013, 2013, 6650509.		8
38	Kinetic Shapes: Analysis, Verification, and Applications. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, 0610051-610058.	2.9	8
39	Crutch tip for swing-through crutch walking control based on a kinetic shape. , 2015, , .		8
40	To Know Your Own Strength: Overriding Natural Force Attenuation. IEEE Transactions on Haptics, 2014, 7, 264-269.	2.7	7
41	Laser-assisted telerobotic control for enhancing manipulation capabilities of persons with disabilities. , 2010, , .		6
42	Tactile Morse Code Using Locational Stimulus Identification. IEEE Transactions on Haptics, 2018, 11, 151-155.	2.7	6
43	Human Gait Analysis Metric for Gait Retraining. Applied Bionics and Biomechanics, 2019, 2019, 1-8.	1.1	6
44	Asymmetric Cooling and Heating Perception. Lecture Notes in Computer Science, 2018, , 221-233.	1.3	6
45	Symmetry modes and stiffnesses for bimanual rehabilitation. , 2011, 2011, 5975508.		5
46	The musical kinetic shape: A variable tension string instrument. Applied Acoustics, 2014, 85, 143-149.	3.3	5
47	Knee orthosis with variable stiffness and damping that simulates hemiparetic gait. , 2016, 2016, 2218-2221.		5
48	The effects of incongruent feedback on bimanual task performance. , 2012, , .		3
49	Combined gait asymmetry metric. , 2016, 2016, 2165-2168.		3
50	Home-Based Rehabilitation: Enabling Frequent and Effective Training. Trends in Augmentation of Human Performance, 2014, , 379-403.	0.4	3
51	Thermal Perception of Skin Using Optical Projections. , 2017, , .		2
52	Superposition principle applies to human walking with two simultaneous interventions. Scientific Reports, 2021, 11, 7465.	3.3	2
53	Cooperative Physical Human-Human and Human-Robot Interaction. Springer Series on Touch and Haptic Systems, 2012, , 105-127.	0.3	2
54	Design and analysis of a compliant bimanual rehabilitation device. , 2013, 2013, 6650456.		1

#	ARTICLE	IF	CITATIONS
55	Robot-assisted balance training for gait modification. , 2013, 2013, 6650421.		1
56	The ‘chopstick’ illusion: A simply demonstrated tactile illusion. , 2014, , .		1
57	Analysis of human stepping dynamics using a wii balance board with a webcam. , 2015, , .		1
58	Two-Dimensional Kinetic Shape Dynamics: Verification and Application. Journal of Nonlinear Dynamics, 2016, 2016, 1-15.	0.2	1
59	Quantifying the benefit of the Kinetic Crutch Tip. , 2017, 2017, 424-429.		1
60	3D Printed Passive Compliant and Articulating Prosthetic Ankle Foot. , 2017, , .		1
61	Assistive Force Redirection of Crutch Gait Produced by the Kinetic Crutch Tip. , 2017, , .		1
62	Heat Flux Characteristics of Asymmetrically Heated and Cooled Thermal Stimuli. , 2017, , .		1
63	Feature selection in gait classification of leg length and distal mass. Informatics in Medicine Unlocked, 2019, 15, 100163.	3.4	1
64	Interaction of Multiple Gait Rehabilitation Techniques. Archives of Physical Medicine and Rehabilitation, 2019, 100, e186-e187.	0.9	1
65	Identical Limb Dynamics for Unilateral Impairments through Biomechanical Equivalence. Symmetry, 2021, 13, 705.	2.2	1
66	Roll-Over Shape-Based Design of Novel Biomimetic Ankle-Foot Prosthesis. Journal of Prosthetics and Orthotics, 2021, 33, 279-293.	0.4	1
67	Time Delay Affects Thermal Discrimination. IEEE Transactions on Haptics, 2022, 15, 451-457.	2.7	1
68	Application of haptic feedback to a combot. , 2012, , .		0
69	Position and Weight Activated Passive Knee Mechanism. , 2015, , .		0
70	Recognition of gait impairment evaluated using an artificial gait stimuli. , 2015, , .		0
71	Assessing the role of preknowledge in force compensation during a tracking task. , 2016, 2016, 4581-4584.		0
72	Evaluating the Gait of Lower Limb Prosthesis Users. Biosystems and Biorobotics, 2017, , 219-224.	0.3	0

#	ARTICLE	IF	CITATIONS
73	Effects on Balance When Interfering With Proprioception at the Knee. , 2017, , .		0
74	Analysis of Two-Dimensional Kinetic Shape Systems. , 2017, , .		0
75	Accuracy of Dynamic Force Compensation Varies With Direction and Speed. IEEE Transactions on Haptics, 2019, 12, 658-664.	2.7	0
76	The Role of Spatial and Modality Cues on Visual and Haptic Memory. IEEE Transactions on Haptics, 2022, 15, 154-163.	2.7	0
77	Human-Human Connected Dyads Learning a Visuomotor Rotation in a Targeted Reaching Task. , 2021, 2021, 6533-6538.		0
78	Real-time feedback control of split-belt ratio to induce targeted step length asymmetry. Journal of NeuroEngineering and Rehabilitation, 2022, 19, .	4.6	0