

# Vineet Vashista

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

342  
citations

1307594

7  
h-index

996975

15  
g-index

40  
all docs

40  
docs citations

40  
times ranked

263  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robot-driven downward pelvic pull to improve crouch gait in children with cerebral palsy. Science Robotics, 2017, 2, .	17.6	45
2	Direction-Dependent Adaptation of Dynamic Gait Stability Following Waist-Pull Perturbations. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 1304-1313.	4.9	39
3	Active Tethered Pelvic Assist Device (A-TPAD) to study force adaptation in human walking. , 2014, , .		37
4	Effect on wrench-feasible workspace of cable-driven parallel robots by adding springs. Mechanism and Machine Theory, 2015, 86, 201-210.	4.5	29
5	A Novel Approach to Apply Gait Synchronized External Forces on the Pelvis Using A-TPAD to Reduce Walking Effort. IEEE Robotics and Automation Letters, 2016, 1, 1118-1124.	5.1	20
6	On the Adaptation of Pelvic Motion by Applying 3-dimensional Guidance Forces Using TPAD. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1558-1567.	4.9	17
7	Locomotor Adaptation to an Asymmetric Force on the Human Pelvis Directed Along the Right Leg. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 872-881.	4.9	16
8	Experimental studies on the human gait using a tethered pelvic assist device (T-PAD). , 2011, 2011, 5975472.		13
9	Force Adaptation in Human Walking With Symmetrically Applied Downward Forces on the Pelvis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 969-978.	4.9	13
10	Asymmetric adaptation in human walking using the Tethered Pelvic Assist Device (TPAD). , 2013, 2013, 6650385.		9
11	A novel assist-as-needed control method to guide pelvic trajectory for gait rehabilitation. , 2015, , .		8
12	On the Human Control of a Multiple Quadcopters with a Cable-suspended Payload System. , 2020, , .		8
13	Design of the Second Spine: A Secondary Pathway to Transfer Loads From the Shoulders to the Pelvis. , 2013, , .		7
14	A new Constant Pushing Force Device for human walking analysis. , 2014, , .		7
15	Dual-Motor-Task of Catching and Throwing a Ball During Overground Walking in Virtual Reality. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1661-1667.	4.9	7
16	Stiffness modulation of a cable-driven leg exoskeleton for effective human-robot interaction. Robotica, 2021, 39, 2172-2192.	1.9	7
17	On the stiffness analysis of a cable driven leg exoskeleton. , 2017, 2017, 455-460.		6
18	A cable driven parallel robot for coconut farm. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
19	Evolving Toward Subject-Specific Gait Rehabilitation Through Single-Joint Resistive Force Interventions. <i>Frontiers in Neurorobotics</i> , 2020, 14, 15.	2.8	6
20	Development of an Adaptive Gait Characterizer. , 2017, , .		5
21	Second Spine: A device to relieve stresses on the upper body during loaded walking. , 2014, , .		4
22	Collaborative Transportation of Cable-Suspended Payload using Two Quadcopters with Human in the loop. , 2019, , .		4
23	Force adaptation in human walking with symmetrically applied downward forces on the pelvis. , 2012, 2012, 3312-5.		3
24	Lower-Limb Strategy Assessment during a Virtual Reality based Dual-Motor-Task. , 2020, , .		3
25	Recent advances in lower-extremity exoskeletons in promoting performance restoration. <i>Current Opinion in Biomedical Engineering</i> , 2021, 20, 100338.	3.4	3
26	Effect of Cable Co-sharing on the Workspace of a cable-Driven Serial Chain Manipulator. , 2019, , .		3
27	Passive Exosuit Emulator for Material Handling Applications. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 7605-7611.	5.1	3
28	Effect of External Damping on Ankle Motion During the Swing Phase of Walking. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 7612-7619.	5.1	3
29	On-board cable attitude measurement and controller for outdoor aerial transportation. <i>Robotica</i> , 2022, 40, 1650-1664.	1.9	2
30	Gait Classification With Gait Inherent Attribute Identification From Ankle's Kinematics. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 833-842.	4.9	2
31	Throwing Strategy in a Dual-Motor-Task of Aiming at the Bullseye While Walking in Virtual Reality. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 9091-9098.	5.1	2
32	Stroke Survivor Gait Adaptations Using Asymmetric Forces with the Tethered Pelvic Assist Device. <i>Archives of Physical Medicine and Rehabilitation</i> , 2015, 96, e20.	0.9	1
33	Lower Limb Musculoskeletal Stiffness Analysis During Swing phase as a Cable-Driven Serial Chain System. , 2018, , .		1
34	Development and Applicability of a Cable-driven Wearable Adaptive Rehabilitation Suit (WeARS). , 2019, , .		1
35	Intention Detection and Gait Recognition (IDGR) System for Gait Assessment: A Pilot Study. , 2019, , .		1
36	Design and Development of an Efficient Onion Harvester for Indian Farms. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 541-548.	0.4	1

#	ARTICLE	IF	CITATIONS
37	Workspace Analysis of a Cable Driven Leg Exoskeleton. , 2017, , .		0
38	Minimum Swing Controller for Quadrotor Suspended Load System. , 2019, , .		0
39	Lower-limb Muscle Force analysis for a Knee Joint Intervention Strategy. , 2021, , .		0
40	Vibratory cue training elicits anticipatory postural responses to an external perturbation. Experimental Brain Research, 2022, 240, 1105.	1.5	0