Vipul A Lugade

List of Publications by Year
in descending order

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37 papers	1,472 citations	471509 17 h-index	434195 31 g-index
38 all docs	38 docs citations	38 times ranked	2011 citing authors

#	Article	IF	Citations
1	Effects of Single-Task Versus Dual-Task Training on Balance Performance in Older Adults: A Double-Blind, Randomized Controlled Trial. Archives of Physical Medicine and Rehabilitation, 2009, 90, 381-387.	0.9	310
2	Training-related changes in dual-task walking performance of elderly persons with balance impairment: A double-blind, randomized controlled trial. Gait and Posture, 2009, 29, 634-639.	1.4	173
3	Center of mass and base of support interaction during gait. Gait and Posture, 2011, 33, 406-411.	1.4	136
4	Validity of using tri-axial accelerometers to measure human movement â€“ Part II: Step counts at a wide range of gait velocities. Medical Engineering and Physics, 2014, 36, 659-669.	1.7	130
5	Validity of using tri-axial accelerometers to measure human movementâ€”Part I: Posture and movement detection. Medical Engineering and Physics, 2014, 36, 169-176.	1.7	113
6	Reliability and validity of a smartphone-based assessment of gait parameters across walking speed and smartphone locations: Body, bag, belt, hand, and pocket. Gait and Posture, 2017, 58, 516-522.	1.4	86
7	Gait asymmetry following an anterior and anterolateral approach to total hip arthroplasty. Clinical Biomechanics, 2010, 25, 675-680.	1.2	69
8	Is There Faster Recovery With an Anterior or Anterolateral THA? A Pilot Study. Clinical Orthopaedics and Related Research, 2010, 468, 533-541.	1.5	66
9	Dual-task interference during obstacle clearance in healthy and balance-impaired older adults. Aging Clinical and Experimental Research, 2008, 20, 349-354.	2.9	47
10	Center of pressure trajectory during gait: A comparison of four foot positions. Gait and Posture, 2014, 40, 719-722.	1.4	40
11	Posture and Movement Classification: The Comparison of Tri-Axial Accelerometer Numbers and Anatomical Placement. Journal of Biomechanical Engineering, 2014, 136, 051003.	1.3	33
12	Cognitive and visual demands, but not gross motor demand, of concurrent smartphone use affect laboratory and free-living gait among young and older adults. Gait and Posture, 2019, 68, 30-36.	1.4	29
13	Dynamic stability margin using a marker based system and Tekscan: A comparison of four gait conditions. Gait and Posture, 2014, 40, 252-254.	1.4	24
14	Short-term Recovery of Balance Control after Total Hip Arthroplasty. Clinical Orthopaedics and Related Research, 2008, 466, 3051-3058.	1.5	23
15	Step detection using multi- versus single tri-axial accelerometer-based systems. Physiological Measurement, 2015, 36, 2519-2535.	2.1	23
16	Smartphone-Based Assessment of Gait During Straight Walking, Turning, and Walking Speed Modulation in Laboratory and Free-Living Environments. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1188-1195.	6.3	21
17	A multifaceted and clinically viable paradigm to quantify postural control impairments among adolescents with concussion. Physiological Measurement, 2019, 40, 084006.	2.1	20
18	Determining the utility of a smartphone-based gait evaluation for possible use in concussion management. Physician and Sportsmedicine, 2020, 48, 75-80.	2.1	18

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19	Home-based interventions improve trained, but not novel, dual-task balance performance in older adults: A randomized controlled trial. Gait and Posture, 2017, 52, 147-152.	1.4	17
20	An Artificial Neural Network Estimation of Gait Balance Control in the Elderly Using Clinical Evaluations. PLoS ONE, 2014, 9, e97595.	2.5	17
21	Assessment of stability during gait in patients with spinal deformityâ€"A preliminary analysis using the dynamic stability margin. Gait and Posture, 2017, 55, 37-42.	1.4	13
22	A principal component analysis approach to correcting the knee flexion axis during gait. Journal of Biomechanics, 2016, 49, 1698-1704.	2.1	12
23	Accelerations of the Waist and Lower Extremities Over a Range of Gait Velocities to Aid in Activity Monitor Selection for Field-Based Studies. Journal of Applied Biomechanics, 2014, 30, 581-585.	0.8	11
24	Smartphone Monitoring of Gait and Balance During Irregular Surface Walking and Obstacle Crossing. Frontiers in Sports and Active Living, 2020, 2, 560577.	1.8	10
25	Reliability and Minimal Detectable Change for a Smartphone-Based Motor-Cognitive Assessment: Implications for Concussion Management. Journal of Applied Biomechanics, 2021, 37, 380-387.	0.8	7
26	COMPARISON OF AN ELECTROMAGNETIC AND OPTICAL SYSTEM DURING DYNAMIC MOTION. Biomedical Engineering - Applications, Basis and Communications, 2015, 27, 1550041.	0.6	6
27	Dynamic assessment of center of pressure measurements from an instrumented AMTI treadmill with controlled precision. Medical Engineering and Physics, 2017, 42, 99-104.	1.7	5
28	Three-Day Remote Monitoring of Gait Among Young and Older Adults Using Participantsâ€™ Personal Smartphones. Journal of Aging and Physical Activity, 2021, 29, 1026-1033.	1.0	5
29	A novel smartphone application is reliable for repeat administration and comparable to the Tekscan Strideway for spatiotemporal gait. Measurement: Journal of the International Measurement Confederation, 2022, 192, 110882.	5.0	5
30	Trunk and pelvis biomechanical responses in children with cerebral palsy and with typical development during horseback riding. Gait and Posture, 2021, 89, 115-119.	1.4	1
31	Feasibility study of inertia sensor technology on the pelvic and trunk kinematics during horseback riding in children. , 2020, 19, 111-120.		1
32	EFFECTS OF SINGLE - VS DUAL-TASK TRAINING IN OLDER ADULTS WITH BALANCE IMPAIRMENT. Journal of Biomechanics, 2007, 40, S124.	2.1	0
33	GAIT STABILITY FOLLOWING TOTAL HIP REPLACEMENT. Journal of Biomechanics, 2007, 40, S126.	2.1	0
34	The Effect of Blood Glucose on Quiet Standing Balance in Young Healthy Individuals. Biomedical Engineering - Applications, Basis and Communications, 2020, 32, 2050016.	0.6	0
35	Validation of Static and Dynamic Activity Detection Using a Tri-Axial Accelerometer and Video. , 2012, , .		0
36	Step Count Validation of a Tri-Axial Accelerometer During Walking and Jogging. , 2012, , .		0

#	Article	IF	Citations
37	Identification of True Knee Flexion Axis Despite Marker Misplacement Using Principal Component Analysis. , 2013, , .		0