

# Stephen Neil Robinovitch

## List of Publications by Citations

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99  
papers

3,346  
citations

33  
h-index

56  
g-index

101  
ext. papers

3,876  
ext. citations

4.3  
avg, IF

5.46  
L-index

#	Paper	IF	Citations
99	Video capture of the circumstances of falls in elderly people residing in long-term care: an observational study. <i>Lancet, The</i> , <b>2013</b> , 381, 47-54	4.0	516
98	Prediction of upper extremity impact forces during falls on the outstretched hand. <i>Journal of Biomechanics</i> , <b>1998</b> , 31, 1169-76	2.9	167
97	Force attenuation in trochanteric soft tissues during impact from a fall. <i>Journal of Orthopaedic Research</i> , <b>1995</b> , 13, 956-62	3.8	138
96	Estimation of Attitude and External Acceleration Using Inertial Sensor Measurement During Various Dynamic Conditions. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2012</b> , 61, 2262-2273	5.2	129
95	Reducing hip fracture risk during sideways falls: evidence in young adults of the protective effects of impact to the hands and stepping. <i>Journal of Biomechanics</i> , <b>2007</b> , 40, 2612-8	2.9	112
94	A comparison of accuracy of fall detection algorithms (threshold-based vs. machine learning) using waist-mounted tri-axial accelerometer signals from a comprehensive set of falls and non-fall trials. <i>Medical and Biological Engineering and Computing</i> , <b>2017</b> , 55, 45-55	3.1	90
93	Inertial sensing-based pre-impact detection of falls involving near-fall scenarios. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2015</b> , 23, 258-66	4.8	81
92	The effect of step length on young and elderly women's ability to recover balance. <i>Clinical Biomechanics</i> , <b>2007</b> , 22, 574-80	2.2	78
91	Mechanisms underlying age-related differences in ability to recover balance with the ankle strategy. <i>Gait and Posture</i> , <b>2006</b> , 23, 59-68	2.6	78
90	Biomechanical influences on balance recovery by stepping. <i>Journal of Biomechanics</i> , <b>1999</b> , 32, 1099-106	2.9	76
89	Effect of strength and speed of torque development on balance recovery with the ankle strategy. <i>Journal of Neurophysiology</i> , <b>2002</b> , 88, 613-20	3.2	74
88	An analysis of the accuracy of wearable sensors for classifying the causes of falls in humans. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2011</b> , 19, 670-6	4.8	68
87	Surface stiffness affects impact force during a fall on the outstretched hand. <i>Journal of Orthopaedic Research</i> , <b>1998</b> , 16, 309-13	3.8	63
86	Strategies for avoiding hip impact during sideways falls. <i>Journal of Bone and Mineral Research</i> , <b>2003</b> , 18, 1267-73	6.3	61
85	Distribution of contact force during impact to the hip. <i>Annals of Biomedical Engineering</i> , <b>1997</b> , 25, 499-508	5.7	60
84	Low stiffness floors can attenuate fall-related femoral impact forces by up to 50% without substantially impairing balance in older women. <i>Accident Analysis and Prevention</i> , <b>2009</b> , 41, 642-50	6.1	57
83	Hip protectors: recommendations for biomechanical testing--an international consensus statement (part I). <i>Osteoporosis International</i> , <b>2009</b> , 20, 1977-88	5.3	56

82	The force attenuation provided by hip protectors depends on impact velocity, pelvic size, and soft tissue stiffness. <i>Journal of Biomechanical Engineering</i> , <b>2008</b> , 130, 061005	2.1	56
81	Effect of the "squat protective response" on impact velocity during backward falls. <i>Journal of Biomechanics</i> , <b>2004</b> , 37, 1329-37	2.9	56
80	Perception of postural limits during reaching. <i>Journal of Motor Behavior</i> , <b>1998</b> , 30, 352-8	1.4	56
79	Older fallers with poor working memory overestimate their postural limits. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2008</b> , 89, 1335-40	2.8	53
78	Prevalence of and factors associated with head impact during falls in older adults in long-term care. <i>Cmaj</i> , <b>2013</b> , 185, E803-10	3.5	52
77	Postural steadiness during quiet stance does not associate with ability to recover balance in older women. <i>Clinical Biomechanics</i> , <b>2005</b> , 20, 776-83	2.2	50
76	An analysis of the effect of lower extremity strength on impact severity during a backward fall. <i>Journal of Biomechanical Engineering</i> , <b>2001</b> , 123, 590-8	2.1	45
75	The effects of pad geometry and material properties on the biomechanical effectiveness of 26 commercially available hip protectors. <i>Journal of Biomechanics</i> , <b>2011</b> , 44, 2627-35	2.9	44
74	Effect of soft shell hip protectors on pressure distribution to the hip during sideways falls. <i>Osteoporosis International</i> , <b>2008</b> , 19, 1067-75	5.3	44
73	Effect of compliant flooring on impact force during falls on the hip. <i>Journal of Orthopaedic Research</i> , <b>2006</b> , 24, 1405-11	3.8	44
72	Predictors of serious consequences of falls in residential aged care: analysis of more than 70,000 falls from residents of Bavarian nursing homes. <i>Journal of the American Medical Directors Association</i> , <b>2014</b> , 15, 559-63	5.9	41
71	Validation of accuracy of SVM-based fall detection system using real-world fall and non-fall datasets. <i>PLoS ONE</i> , <b>2017</b> , 12, e0180318	3.7	37
70	Distinguishing the causes of falls in humans using an array of wearable tri-axial accelerometers. <i>Gait and Posture</i> , <b>2014</b> , 39, 506-12	2.6	37
69	Characterizing the effective stiffness of the pelvis during sideways falls on the hip. <i>Journal of Biomechanics</i> , <b>2010</b> , 43, 1898-904	2.9	37
68	Age differences in energy absorption in the upper extremity during a descent movement: implications for arresting a fall. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2010</b> , 65, 312-7	6.4	36
67	Time requirement for young and elderly women to move into a position for breaking a fall with outstretched hands. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2005</b> , 60, 1553-7	6.4	35
66	Association between Sedentary Behaviour and Physical, Cognitive, and Psychosocial Status among Older Adults in Assisted Living. <i>BioMed Research International</i> , <b>2017</b> , 2017, 9160504	3	33
65	Compliant flooring to prevent fall-related injuries in older adults: A scoping review of biomechanical efficacy, clinical effectiveness, cost-effectiveness, and workplace safety. <i>PLoS ONE</i> , <b>2017</b> , 12, e0171652	3.7	31

64	Development and validation of a questionnaire for analyzing real-life falls in long-term care captured on video. <i>BMC Geriatrics</i> , <b>2013</b> , 13, 40	4.1	30
63	Wrist impact velocities are smaller in forward falls than backward falls from standing. <i>Journal of Biomechanics</i> , <b>2006</b> , 39, 1804-11	2.9	30
62	Falls and Parkinson's Disease: Evidence from Video Recordings of Actual Fall Events. <i>Journal of the American Geriatrics Society</i> , <b>2016</b> , 64, 96-101	5.6	30
61	Risk factors for hip impact during real-life falls captured on video in long-term care. <i>Osteoporosis International</i> , <b>2016</b> , 27, 537-47	5.3	27
60	Relationships between orthostatic hypotension, frailty, falling and mortality in elderly care home residents. <i>BMC Geriatrics</i> , <b>2019</b> , 19, 80	4.1	25
59	The body configuration at step contact critically determines the successfulness of balance recovery in response to large backward perturbations. <i>Gait and Posture</i> , <b>2012</b> , 35, 462-6	2.6	25
58	Automated postural responses are modified in a functional manner by instruction. <i>Experimental Brain Research</i> , <b>2008</b> , 186, 571-80	2.3	25
57	Agreement between video footage and fall incident reports on the circumstances of falls in long-term care. <i>Journal of the American Medical Directors Association</i> , <b>2015</b> , 16, 388-94	5.9	24
56	Sex Differences in the Circumstances Leading to Falls: Evidence From Real-Life Falls Captured on Video in Long-Term Care. <i>Journal of the American Medical Directors Association</i> , <b>2018</b> , 19, 130-135.e1	5.9	24
55	Preventing fall-related vertebral fractures: effect of floor stiffness on peak impact forces during backward falls. <i>Spine</i> , <b>2008</b> , 33, 1856-62	3.3	22
54	Clinical Risk Factors for Head Impact During Falls in Older Adults: A Prospective Cohort Study in Long-Term Care. <i>Journal of Head Trauma Rehabilitation</i> , <b>2017</b> , 32, 168-177	3	21
53	The Flooring for Injury Prevention (FLIP) Study of compliant flooring for the prevention of fall-related injuries in long-term care: A randomized trial. <i>PLoS Medicine</i> , <b>2019</b> , 16, e1002843	11.6	19
52	The Effect of Fall Biomechanics on Risk for Hip Fracture in Older Adults: A Cohort Study of Video-Captured Falls in Long-Term Care. <i>Journal of Bone and Mineral Research</i> , <b>2020</b> , 35, 1914-1922	6.3	19
51	Impact severity in self-initiated sits and falls associates with center-of-gravity excursion during descent. <i>Journal of Biomechanics</i> , <b>2000</b> , 33, 863-70	2.9	19
50	Biomechanical and physiological age differences in a simulated forward fall on outstretched hands in women. <i>Clinical Biomechanics</i> , <b>2018</b> , 52, 102-108	2.2	17
49	The effect of window size and lead time on pre-impact fall detection accuracy using support vector machine analysis of waist mounted inertial sensor data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 30-3	0.9	17
48	Maintaining standing balance by handrail grasping. <i>Gait and Posture</i> , <b>2014</b> , 39, 258-64	2.6	17
47	Cardiovascular responses to orthostasis and their association with falls in older adults. <i>BMC Geriatrics</i> , <b>2015</b> , 15, 174	4.1	16

46	Quantification of the trade-off between force attenuation and balance impairment in the design of compliant safety floors. <i>Journal of Applied Biomechanics</i> , <b>2013</b> , 29, 563-72	1.2	14
45	Effects of age-related macular degeneration and ambient light on curb negotiation. <i>Optometry and Vision Science</i> , <b>2014</b> , 91, 975-89	2.1	13
44	Transmission of force in the lumbosacral spine during backward falls. <i>Spine</i> , <b>2012</b> , 37, E519-27	3.3	13
43	Brain Vital Signs: Expanding From the Auditory to Visual Modality. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 968	5.1	11
42	External Hand Forces Exerted by Long-Term Care Staff to Push Floor-Based Lifts: Effects of Flooring System and Resident Weight. <i>Human Factors</i> , <b>2016</b> , 58, 927-43	3.8	11
41	Using video capture to investigate the causes of falls in long-term care. <i>Gerontologist, The</i> , <b>2015</b> , 55, 483-94	5	11
40	Distinguishing near-falls from daily activities with wearable accelerometers and gyroscopes using Support Vector Machines. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 5837-40	0.9	11
39	Effect of mouthguards on the transmission of force across the human jaw. <i>Clinical Journal of Sport Medicine</i> , <b>2005</b> , 15, 313-9	3.2	11
38	The Association Between Fall Frequency, Injury Risk, and Characteristics of Falls in Older Residents of Long-Term Care: Do Recurrent Fallers Fall More Safely?. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2018</b> , 73, 786-791	6.4	10
37	Effectiveness of Hip Protectors to Reduce Risk for Hip Fracture from Falls in Long-Term Care. <i>Journal of the American Medical Directors Association</i> , <b>2019</b> , 20, 1397-1403.e1	5.9	10
36	Modeling of postural stability borders during heel-toe rocking. <i>Gait and Posture</i> , <b>2009</b> , 30, 161-7	2.6	10
35	Autonomy, choice, patient-centered care, and hip protectors: the experience of residents and staff in long-term care. <i>Journal of Applied Gerontology</i> , <b>2014</b> , 33, 690-709	3.3	9
34	The effect of orthostatic stress type on cardiovascular control. <i>Blood Pressure Monitoring</i> , <b>2014</b> , 19, 327-38	3.8	9
33	Study protocol for the Flooring for Injury Prevention (FLIP) Study: a randomised controlled trial in long-term care. <i>Injury Prevention</i> , <b>2016</b> , 22, 453-460	3.2	9
32	Accuracy of a wavelet-based fall detection approach using an accelerometer and a barometric pressure sensor. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 2150-2153	0.9	8
31	Effect of ambient light and age-related macular degeneration on precision walking. <i>Optometry and Vision Science</i> , <b>2014</b> , 91, 990-9	2.1	7
30	Identifying the number and location of body worn sensors to accurately classify walking, transferring and sedentary activities. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 5003-5006	0.9	6
29	Female Age-Related Differences in Biomechanics and Muscle Activity During Descents on the Outstretched Arms. <i>Journal of Aging and Physical Activity</i> , <b>2017</b> , 25, 474-481	1.6	5

28	A comparison of the magnitude and duration of linear and rotational head accelerations generated during hand-, elbow- and shoulder-to-head checks delivered by hockey players. <i>Journal of Biomechanics</i> , <b>2019</b> , 91, 43-50	2.9	5
27	Hand forces exerted by long-term care staff when pushing wheelchairs on compliant and non-compliant flooring. <i>Applied Ergonomics</i> , <b>2018</b> , 71, 95-101	4.2	5
26	Effect of Holding Objects on the Occurrence of Head Impact in Falls by Older Adults: Evidence From Real-Life Falls in Long-Term Care. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2021</b> , 76, 1463-1470	6.4	5
25	Perceptions about Compliant Flooring from Senior Managers in Long-Term Care. <i>Journal of Housing for the Elderly</i> , <b>2018</b> , 32, 194-210	1.6	4
24	The effects of initial movement dynamics on human responses to postural perturbations. <i>Human Movement Science</i> , <b>2013</b> , 32, 857-65	2.4	4
23	Neuromuscular versus behavioural influences on reaching performance in young and elderly women. <i>Gait and Posture</i> , <b>2005</b> , 22, 258-66	2.6	4
22	Elderly nursing home and day care participants are less likely than young adults to approach imbalance during voluntary forward reaching. <i>Experimental Aging Research</i> , <b>2004</b> , 30, 275-90	1.7	4
21	The Effect of Shoulder Pad Design on Head Impact Severity during Checking. <i>Medicine and Science in Sports and Exercise</i> , <b>2017</b> , 49, 573-580	1.2	3
20	Video-Based Analysis of Heart Rate Applied to Falls <b>2018</b> ,		3
19	Measurement of the effect of playground surface materials on hand impact forces during upper limb fall arrests. <i>Journal of Applied Biomechanics</i> , <b>2014</b> , 30, 276-81	1.2	3
18	Validation and psychometric properties of the commitment to hip protectors (C-HiP) index in long-term care providers of British Columbia, Canada: a cross-sectional survey. <i>BMC Geriatrics</i> , <b>2017</b> , 17, 103	4.1	3
17	Estimating Trunk and Neck Stabilization for Avoiding Head Impact during Real-World Falls in Older Adults. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2020</b> , 2020, 4823-4826	0.9	3
16	The Role of Fall Biomechanics in the Cause and Prevention of Bone Fractures in Older Adults. <i>Current Osteoporosis Reports</i> , <b>2021</b> , 19, 381-390	5.4	3
15	Recreational Therapy to Promote Mobility in Long-Term Care: A Scoping Review. <i>Journal of Aging and Physical Activity</i> , <b>2020</b> , 29, 142-161	1.6	3
14	Determinants of staff commitment to hip protectors in long-term care: A cross-sectional survey. <i>International Journal of Nursing Studies</i> , <b>2018</b> , 82, 139-148	5.8	2
13	Home-safety modifications to reduce injuries from falls. <i>Lancet, The</i> , <b>2015</b> , 385, 205-6	4.0	2
12	Biometric system for measuring gait and fall characteristics captured on video. <i>Journal of Biomechanical Engineering</i> , <b>2014</b> , 136,	2.1	2
11	Accuracy of Kinovea software in estimating body segment movements during falls captured on standard video: Effects of fall direction, camera perspective and video calibration technique. <i>PLoS ONE</i> , <b>2021</b> , 16, e0258923	3.7	2

10	Development of a stick-on hip protector: A multiple methods study to improve hip protector design for older adults in the acute care environment. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , <b>2019</b> , 6, 2055668319877314	1.7	2
9	Similarity of Repeated Falls in Older Long-Term Care Residents: Do the Circumstances of Past Falls Predict Those of Future Falls?. <i>Journal of the American Medical Directors Association</i> , <b>2019</b> , 20, 386-387	5.9	2
8	Effect of body configuration at step contact on balance recovery from sideways perturbations. <i>Human Movement Science</i> , <b>2019</b> , 66, 383-389	2.4	1
7	Falls in older people in long-term care--authorsSreply. <i>Lancet, The</i> , <b>2013</b> , 381, 1180	4.0	1
6	Understanding contextual factors in falls in long-term care facilities. <i>Quality in Ageing and Older Adults</i> , <b>2013</b> , 14, 160-166	0.9	1
5	The European Standard testing method for motorcyclistsSprotective clothing (EN 1621-1) is unsuitable for hip protectors. <i>Injury</i> , <b>2010</b> , 41, 430-1; author reply 431	2.5	1
4	American society of biomechanics journal of biomechanics award 2019: Circumstances of head impacts in menS university ice hockey. <i>Journal of Biomechanics</i> , <b>2020</b> , 108, 109882	2.9	1
3	Injuries from falls by older adults in long-term care captured on video: Prevalence of impacts and injuries to body parts.. <i>BMC Geriatrics</i> , <b>2022</b> , 22, 343	4.1	1
2	Effective stiffness, damping and mass of the body during laboratory simulations of shoulder checks in ice hockey. <i>Sports Biomechanics</i> , <b>2021</b> , 1-12	2.2	0
1	Ecology of falls. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , <b>2018</b> , 159, 147-154	3	0