

Silvia Del Din

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

3,643
citations

172207

29
h-index

155451

55
g-index

98
all docs

98
docs citations

98
times ranked

3501
citing authors

#	ARTICLE	IF	CITATIONS
1	Addition of a non-immersive virtual reality component to treadmill training to reduce fall risk in older adults (V-TIME): a randomised controlled trial. <i>Lancet, The</i> , 2016, 388, 1170-1182.	6.3	328
2	Free-living monitoring of Parkinson's disease: Lessons from the field. <i>Movement Disorders</i> , 2016, 31, 1293-1313.	2.2	252
3	Validation of an Accelerometer to Quantify a Comprehensive Battery of Gait Characteristics in Healthy Older Adults and Parkinson's Disease: Toward Clinical and at Home Use. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 838-847.	3.9	246
4	Free-living gait characteristics in ageing and Parkinson's disease: impact of environment and ambulatory bout length. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 46.	2.4	228
5	Instrumenting gait with an accelerometer: A system and algorithm examination. <i>Medical Engineering and Physics</i> , 2015, 37, 400-407.	0.8	170
6	Is every-day walking in older adults more analogous to dual-task walking or to usual walking? Elucidating the gaps between gait performance in the lab and during 24/7 monitoring. <i>European Review of Aging and Physical Activity</i> , 2019, 16, 6.	1.3	151
7	Gait analysis with wearables predicts conversion to Parkinson disease. <i>Annals of Neurology</i> , 2019, 86, 357-367.	2.8	137
8	Analysis of Free-Living Gait in Older Adults With and Without Parkinson's Disease and With and Without a History of Falls: Identifying Generic and Disease-Specific Characteristics. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 500-506.	1.7	132
9	Detecting free-living steps and walking bouts: validating an algorithm for macro gait analysis. <i>Physiological Measurement</i> , 2017, 38, N1-N15.	1.2	109
10	The Role of Movement Analysis in Diagnosing and Monitoring Neurodegenerative Conditions: Insights from Gait and Postural Control. <i>Brain Sciences</i> , 2019, 9, 34.	1.1	109
11	Validation of a Step Detection Algorithm during Straight Walking and Turning in Patients with Parkinson's Disease and Older Adults Using an Inertial Measurement Unit at the Lower Back. <i>Frontiers in Neurology</i> , 2017, 8, 457.	1.1	79
12	Selecting Clinically Relevant Gait Characteristics for Classification of Early Parkinson's Disease: A Comprehensive Machine Learning Approach. <i>Scientific Reports</i> , 2019, 9, 17269.	1.6	76
13	Associations between daily-living physical activity and laboratory-based assessments of motor severity in patients with falls and Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2019, 62, 85-90.	1.1	70
14	Differentiating dementia disease subtypes with gait analysis: feasibility of wearable sensors?. <i>Gait and Posture</i> , 2020, 76, 372-376.	0.6	68
15	Estimating fugl-meyer clinical scores in stroke survivors using wearable sensors. , 2011, 2011, 5839-42.		65
16	A model of free-living gait: A factor analysis in Parkinson's disease. <i>Gait and Posture</i> , 2017, 52, 68-71.	0.6	63
17	Estimation of spatio-temporal parameters of gait from magneto-inertial measurement units: multicenter validation among Parkinson, mildly cognitively impaired and healthy older adults. <i>BioMedical Engineering OnLine</i> , 2018, 17, 58.	1.3	56
18	Technical validation of real-world monitoring of gait: a multicentric observational study. <i>BMJ Open</i> , 2021, 11, e050785.	0.8	56

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19	Measuring gait with an accelerometer-based wearable: influence of device location, testing protocol and age. <i>Physiological Measurement</i> , 2016, 37, 1785-1797.	1.2	51
20	Biomechanical assessment of balance and posture in subjects with ankylosing spondylitis. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012, 9, 63.	2.4	49
21	Body-Worn Sensors for Remote Monitoring of Parkinson's Disease Motor Symptoms: Vision, State of the Art, and Challenges Ahead. <i>Journal of Parkinson's Disease</i> , 2021, 11, S35-S47.	1.5	47
22	Impaired gait in ankylosing spondylitis. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 801-809.	1.6	46
23	Gait in Mild Alzheimer's Disease: Feasibility of Multi-Center Measurement in the Clinic and Home with Body-Worn Sensors: A Pilot Study. <i>Journal of Alzheimer's Disease</i> , 2018, 63, 331-341.	1.2	42
24	Falls Risk in Relation to Activity Exposure in High-Risk Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 1198-1205.	1.7	40
25	Detecting Sensitive Mobility Features for Parkinson's Disease Stages Via Machine Learning. <i>Movement Disorders</i> , 2021, 36, 2144-2155.	2.2	40
26	Everyday Stepping Quantity and Quality Among Older Adult Fallers With and Without Mild Cognitive Impairment: Initial Evidence for New Motor Markers of Cognitive Deficits?. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 1078-1082.	1.7	39
27	Validity of a wearable accelerometer to quantify gait in spinocerebellar ataxia type 6. <i>Physiological Measurement</i> , 2016, 37, N105-N117.	1.2	36
28	iCap: Instrumented assessment of physical capability. <i>Maturitas</i> , 2015, 82, 116-122.	1.0	35
29	Comprehensive measurement of stroke gait characteristics with a single accelerometer in the laboratory and community: a feasibility, validity and reliability study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 130.	2.4	35
30	Comparison of Walking Protocols and Gait Assessment Systems for Machine Learning-Based Classification of Parkinson's Disease. <i>Sensors</i> , 2019, 19, 5363.	2.1	35
31	Tossing and Turning in Bed: Nocturnal Movements in Parkinson's Disease. <i>Movement Disorders</i> , 2020, 35, 959-968.	2.2	34
32	Accelerometry-Based Digital Gait Characteristics for Classification of Parkinson's Disease: What Counts?. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2020, 1, 65-73.	1.7	34
33	Exenatide once weekly over 2 years as a potential disease-modifying treatment for Parkinson's disease: protocol for a multicentre, randomised, double blind, parallel group, placebo controlled, phase 3 trial: The 'Exenatide-PD' study. <i>BMJ Open</i> , 2021, 11, e047993.	0.8	32
34	The Impact of Environment on Gait Assessment: Considerations from Real-World Gait Analysis in Dementia Subtypes. <i>Sensors</i> , 2021, 21, 813.	2.1	31
35	Consensus based framework for digital mobility monitoring. <i>PLoS ONE</i> , 2021, 16, e0256541.	1.1	31
36	Gait Asymmetry Post-Stroke: Determining Valid and Reliable Methods Using a Single Accelerometer Located on the Trunk. <i>Sensors</i> , 2020, 20, 37.	2.1	29

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37	Continuous Real-World Gait Monitoring in Idiopathic REM Sleep Behavior Disorder. <i>Journal of Parkinson's Disease</i> , 2020, 10, 283-299.	1.5	27
38	Longitudinal changes over thirty-six months in postural control dynamics and cognitive function in people with Parkinson's disease. <i>Gait and Posture</i> , 2018, 62, 468-474.	0.6	25
39	Postural Dynamics Are Associated With Cognitive Decline in Parkinson's Disease. <i>Frontiers in Neurology</i> , 2018, 9, 1044.	1.1	25
40	Developing a toolkit for the assessment and monitoring of musculoskeletal ageing. <i>Age and Ageing</i> , 2018, 47, iv1-iv19.	0.7	25
41	Gait Analysis with Wearables Can Accurately Classify Fallers from Non-Fallers: A Step toward Better Management of Neurological Disorders. <i>Sensors</i> , 2020, 20, 6992.	2.1	24
42	Instrumented gait assessment with a single wearable: an introductory tutorial. <i>F1000Research</i> , 0, 5, 2323.	0.8	24
43	Instrumented assessment of test battery for physical capability using an accelerometer: a feasibility study. <i>Physiological Measurement</i> , 2015, 36, N71-N83.	1.2	23
44	Entropy of Real-World Gait in Parkinson's Disease Determined from Wearable Sensors as a Digital Marker of Altered Ambulatory Behavior. <i>Sensors</i> , 2020, 20, 2631.	2.1	23
45	Deep Learning Techniques for Improving Digital Gait Segmentation. , 2019, 2019, 1834-1837.		22
46	Turning Detection During Gait: Algorithm Validation and Influence of Sensor Location and Turning Characteristics in the Classification of Parkinson's Disease. <i>Sensors</i> , 2020, 20, 5377.	2.1	22
47	Within trial validation and reliability of a single tri-axial accelerometer for gait assessment. , 2014, 2014, 5892-5.		19
48	Classification of Neurological Patients to Identify Fallers Based on Spatial-Temporal Gait Characteristics Measured by a Wearable Device. <i>Sensors</i> , 2020, 20, 4098.	2.1	19
49	Time-dependent changes in postural control in early Parkinson's disease: what are we missing?. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 401-410.	1.6	18
50	Detection of Gait From Continuous Inertial Sensor Data Using Harmonic Frequencies. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1-1.	3.9	18
51	Assessment of biofeedback rehabilitation in post-stroke patients combining fMRI and gait analysis: a case study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 53.	2.4	17
52	Towards holistic free-living assessment in Parkinson's disease: Unification of gait and fall algorithms with a single accelerometer. , 2016, 2016, 651-654.		16
53	Factors That Influence Habitual Activity in Mild Cognitive Impairment and Dementia. <i>Gerontology</i> , 2020, 66, 197-208.	1.4	16
54	An Objective Methodology for the Selection of a Device for Continuous Mobility Assessment. <i>Sensors</i> , 2020, 20, 6509.	2.1	15

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55	Altered EMG patterns in diabetic neuropathic and not neuropathic patients during step ascending and descending. <i>Journal of Electromyography and Kinesiology</i> , 2016, 31, 32-39.	0.7	13
56	Beyond the front end: Investigating a thigh worn accelerometer device for step count and bout detection in Parkinson's disease. <i>Medical Engineering and Physics</i> , 2016, 38, 1524-1529.	0.8	13
57	Quantifying physical activity in aged residential care facilities: A structured review. <i>Ageing Research Reviews</i> , 2021, 67, 101298.	5.0	13
58	Evaluating the effects of an exercise program (Staying UpRight) for older adults in long-term care on rates of falls: study protocol for a randomised controlled trial. <i>Trials</i> , 2020, 21, 46.	0.7	12
59	Are Accelerometer-based Functional Outcome Assessments Feasible and Valid After Treatment for Lower Extremity Sarcomas?. <i>Clinical Orthopaedics and Related Research</i> , 2020, 478, 482-503.	0.7	12
60	Home-Based Physical Behavior in Late Stage Parkinson Disease Dementia: Differences between Cognitive Subtypes. <i>Neurodegenerative Diseases</i> , 2017, 17, 135-144.	0.8	10
61	Monitoring Walking Activity with Wearable Technology in Rural-dwelling Older Adults in Tanzania: A Feasibility Study Nested within a Frailty Prevalence Study. <i>Experimental Aging Research</i> , 2020, 46, 367-381.	0.6	10
62	Vision, visuo-cognition and postural control in Parkinson's disease: An associative pilot study. <i>Gait and Posture</i> , 2016, 48, 74-76.	0.6	9
63	Toward a low-cost gait analysis system for clinical and free-living assessment. , 2016, 2016, 1874-1877.		9
64	Investigating the Impact of Environment and Data Aggregation by Walking Bout Duration on Parkinson's Disease Classification Using Machine Learning. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 808518.	1.7	9
65	Accelerometer-based gait assessment: Pragmatic deployment on an international scale. , 2016, , .		8
66	Estimating cut points: A simple method for new wearables. <i>Maturitas</i> , 2016, 83, 78-82.	1.0	8
67	Quantifying Reliable Walking Activity with a Wearable Device in Aged Residential Care: How Many Days Are Enough?. <i>Sensors</i> , 2020, 20, 6314.	2.1	8
68	Balance Impairments as Differential Markers of Dementia Disease Subtype. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 639337.	2.0	6
69	An Algorithm for Accurate Marker-Based Gait Event Detection in Healthy and Pathological Populations During Complex Motor Tasks. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .	2.0	6
70	A low-power multi-modal body sensor network with application to epileptic seizure monitoring. , 2011, 2011, 1806-9.		5
71	A Novel Parameterisation of Phase Plots for Monitoring of Parkinson's Disease. , 2019, 2019, 5890-5893.		5
72	Factors Influencing Habitual Physical Activity in Parkinson's Disease: Considering the Psychosocial State and Wellbeing of People with Parkinson's and Their Carers. <i>Sensors</i> , 2022, 22, 871.	2.1	5

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73	Evaluation of daily walking activity and gait profiles: a novel application of a time series analysis framework. , 2019, 2019, 2482-2485.		4
74	Gait analysis as a clinical tool for dementia: current perspectives and future challenges. Advances in Clinical Neuroscience & Rehabilitation: ACNR, 2021, 20, .	0.1	3
75	Auditory rhythmical cueing to improve gait and physical activity in community-dwelling stroke survivors (ACTIVATE): study protocol for a pilot randomised controlled trial. Pilot and Feasibility Studies, 2020, 6, 68.	0.5	2
76	Wild by Design: Workshop on Designing Ubiquitous Health Monitoring Technologies for Challenging Environments. , 2021, , .		2
77	Optimising function and well-being in older adults: protocol for an integrated research programme in Aotearoa/New Zealand. BMC Geriatrics, 2022, 22, 215.	1.1	2
78	Free-living monitoring of ambulatory activity after treatments for lower extremity musculoskeletal cancers using an accelerometer-based wearable â€” a new paradigm to outcome assessment in musculoskeletal oncology?. Disability and Rehabilitation, 0, , 1-10.	0.9	2
79	Towards a toolkit for the assessment and monitoring of musculoskeletal ageing. Age and Ageing, 2018, 47, 774-777.	0.7	1
80	Predicting the Progression of Parkinsonâ€™s Disease MDS-UPDRS-III Motor Severity Score from Gait Data using Deep Learning. , 2021, 2021, 249-252.		1
81	Acceptability and deliverability of an auditory rhythmical cueing (ARC) training programme for use at home and outdoors to improve gait and physical activity post-stroke. Archives of Physiotherapy, 2022, 12, 1.	0.7	1
82	Walking is Associated With Physical Capacity and Fatigue but not Cognition in Long-Term Care Residents. Journal of the American Medical Directors Association, 2022, 23, e1-e2.	1.2	1
83	WEARABLES REVEAL A GAP BETWEEN GAIT PERFORMANCE IN THE LAB AND DURING 24/7 MONITORING IN OLDER ADULTS. Innovation in Aging, 2019, 3, S335-S335.	0.0	0
84	Reply to â€œQuantitative Motor Functioning in Prodromal Parkinson Diseaseâ€• Annals of Neurology, 2019, 86, 981-982.	2.8	0
85	Use of wearable technology to assess activity in cognitively impaired populations: Inside care homes and the community. Alzheimer's and Dementia, 2020, 16, e039074.	0.4	0
86	Tossing and Turning in Bed: A Wearable Sensor Documents Abnormal Nocturnal Movements in Parkinson's Disease. SSRN Electronic Journal, 0, , .	0.4	0
87	Digital mobility outcomes to assess habitual physical activity in people with cognitive impairment: A systematic review. Alzheimer's and Dementia, 2021, 17, e055547.	0.4	0