

# Andrea Mannini

## List of Publications by Year in descending order

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59  
papers

2,188  
citations

430874

18  
h-index

276875

41  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning Methods for Classifying Human Physical Activity from On-Body Accelerometers. <i>Sensors</i> , 2010, 10, 1154-1175.	3.8	624
2	Activity Recognition Using a Single Accelerometer Placed at the Wrist or Ankle. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 2193-2203.	0.4	317
3	A Machine Learning Framework for Gait Classification Using Inertial Sensors: Application to Elderly, Post-Stroke and Huntington's Disease Patients. <i>Sensors</i> , 2016, 16, 134.	3.8	190
4	Gait phase detection and discrimination between walking and jogging activities using hidden Markov models applied to foot motion data from a gyroscope. <i>Gait and Posture</i> , 2012, 36, 657-661.	1.4	130
5	Online Decoding of Hidden Markov Models for Gait Event Detection Using Foot-Mounted Gyroscopes. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014, 18, 1122-1130.	6.3	99
6	A hidden Markov model-based technique for gait segmentation using a foot-mounted gyroscope. , 2011, 2011, 4369-73.		70
7	Prior-to- and Post-Impact Fall Detection Using Inertial and Barometric Altimeter Measurements. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 774-783.	4.9	62
8	Activity Recognition in Youth Using Single Accelerometer Placed at Wrist or Ankle. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 801-812.	0.4	61
9	Walking speed estimation using foot-mounted inertial sensors: Comparing machine learning and strap-down integration methods. <i>Medical Engineering and Physics</i> , 2014, 36, 1312-1321.	1.7	49
10	Accelerometry-Based Classification of Human Activities Using Markov Modeling. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-10.	1.7	48
11	Accelerometry-based recognition of the placement sites of a wearable sensor. <i>Pervasive and Mobile Computing</i> , 2015, 21, 62-74.	3.3	40
12	Wearable Sensors in Sports for Persons with Disability: A Systematic Review. <i>Sensors</i> , 2021, 21, 1858.	3.8	37
13	Grasp force estimation from the transient EMG using high-density surface recordings. <i>Journal of Neural Engineering</i> , 2020, 17, 016052.	3.5	32
14	Classifier Personalization for Activity Recognition Using Wrist Accelerometers. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 1585-1594.	6.3	31
15	A Smartwatch Step Counter for Slow and Intermittent Ambulation. <i>IEEE Access</i> , 2017, 5, 13028-13037.	4.2	30
16	Machine learning methods for functional recovery prediction and prognosis in post-stroke rehabilitation: a systematic review. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2022, 19, .	4.6	28
17	Hidden Markov model-based strategy for gait segmentation using inertial sensors: Application to elderly, hemiparetic patients and Huntington's disease patients. , 2015, 2015, 5179-82.		25
18	A Wearable Magnetometer-Free Motion Capture System: Innovative Solutions for Real-World Applications. <i>IEEE Sensors Journal</i> , 2020, 20, 8844-8857.	4.7	25

#	ARTICLE	IF	CITATIONS
19	Fourier-based integration of quasi-periodic gait accelerations for drift-free displacement estimation using inertial sensors. <i>BioMedical Engineering OnLine</i> , 2015, 14, 106.	2.7	23
20	On-line classification of human activity and estimation of walk-run speed from acceleration data using support vector machines. , 2011, 2011, 3302-5.		22
21	Online Grasp Force Estimation From the Transient EMG. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2333-2341.	4.9	21
22	Elastomeric contractile actuators for hand rehabilitation splints. , 2008, , .		18
23	Automatic classification of gait in children with early-onset ataxia or developmental coordination disorder and controls using inertial sensors. <i>Gait and Posture</i> , 2017, 52, 287-292.	1.4	18
24	Physical activity characterization: does one site fit all?. <i>Physiological Measurement</i> , 2018, 39, 09TR02.	2.1	18
25	Predictors of Function, Activity, and Participation of Stroke Patients Undergoing Intensive Rehabilitation: A Multicenter Prospective Observational Study Protocol. <i>Frontiers in Neurology</i> , 2021, 12, 632672.	2.4	15
26	Data-driven prediction of decannulation probability and timing in patients with severe acquired brain injury. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 209, 106345.	4.7	12
27	Clinical, Neurophysiological, and Genetic Predictors of Recovery in Patients With Severe Acquired Brain Injuries (PRABI): A Study Protocol for a Longitudinal Observational Study. <i>Frontiers in Neurology</i> , 2022, 13, 711312.	2.4	11
28	Wearable Inertial Sensing for ICT Management of Fall Detection, Fall Prevention, and Assessment in Elderly. <i>Technologies</i> , 2018, 6, 91.	5.1	10
29	Ambulatory Assessment of the Dynamic Margin of Stability Using an Inertial Sensor Network. <i>Sensors</i> , 2019, 19, 4117.	3.8	9
30	Critical illness polyneuromyopathy: Functional impact after severe acquired brain injuries. <i>Acta Neurologica Scandinavica</i> , 2020, 142, 574-584.	2.1	9
31	Merging Clinical and EEG Biomarkers in an Elastic-Net Regression for Disorder of Consciousness Prognosis Prediction. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 1504-1513.	4.9	9
32	Contractile and Buckling Actuators Based on Dielectric Elastomers: Devices and Applications. <i>Advances in Science and Technology</i> , 2008, 61, 186-191.	0.2	8
33	Ambulatory Assessment of Instantaneous Velocity during Walking Using Inertial Sensor Measurements. <i>Sensors</i> , 2016, 16, 2206.	3.8	8
34	Optimal Spatial Sensor Design for Magnetic Tracking in a Myokinetic Control Interface. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 211, 106407.	4.7	8
35	Critical Illness Polyneuropathy and Myopathy and Clinical Detection of the Recovery of Consciousness in Severe Acquired Brain Injury Patients with Disorders of Consciousness after Rehabilitation. <i>Diagnostics</i> , 2022, 12, 516.	2.6	8
36	Performance assessment in archery: a systematic review. <i>Sports Biomechanics</i> , 2022, , 1-23.	1.6	7

#	ARTICLE	IF	CITATIONS
37	Dynamic Splint-Like Hand Orthosis for Finger Rehabilitation. , 0, , 443-461.		6
38	An Innovative Sensor Fusion Algorithm for Motion Tracking With On-Line Bias Compensation: Application to Joint Angles Estimation in Yoga. IEEE Sensors Journal, 2021, 21, 21285-21294.	4.7	6
39	Healthcare and Accelerometry: Applications for Activity Monitoring, Recognition, and Functional Assessment. , 2016, , 21-49.		6
40	A smartphone-centered wearable sensor network for fall risk assessment in the elderly. , 2015, , .		6
41	Sport-induced fatigue detection in gait parameters using inertial sensors and support vector machines. , 2020, , .		5
42	The methodology of a "living" COVID-19 registry development in a clinical context. Journal of Clinical Epidemiology, 2022, 142, 209-217.	5.0	4
43	Grasp Force Estimation from HD-EMG Recordings with Channel Selection Using Elastic Nets: Preliminary Study. , 2018, , .		3
44	Mortality and characteristics of older people dying with COVID-19 in Lombardy nursing homes, Italy: An observational cohort study. Journal of Research in Medical Sciences, 2021, 26, 40.	0.9	3
45	Predicting post COVID-19 rehabilitation duration with linear kernel SVR. , 2021, , .		3
46	Assessment of Biomechanical Response to Fatigue through Wearable Sensors in Semi-Professional Football Referees. Sensors, 2021, 21, 66.	3.8	3
47	Critical issue on the extinction and inattention subtest of NIHSS scale: an analysis on post-acute stroke patients attending inpatient rehabilitation. BMC Neurology, 2021, 21, 475.	1.8	3
48	Effects of COVID-19 pandemic on intensive rehabilitation after severe acquired brain injuries. Neurological Sciences, 2021, 43, 791.	1.9	2
49	Factors influencing trunk control recovery after intensive rehabilitation in post-stroke patients: a multicentre prospective study. Topics in Stroke Rehabilitation, 2023, 30, 109-118.	1.9	2
50	Predicting SARS-CoV-2 infection duration at hospital admission:a deep learning solution. Medical and Biological Engineering and Computing, 2022, 60, 459-470.	2.8	2
51	Impact of decompressive craniectomy on functional outcome of severe acquired brain injuries patients, at discharge from intensive inpatient rehabilitation. Disability and Rehabilitation, 2021, , 1-7.	1.8	1
52	Feasibility Study on Disentangling Muscle Movements in TMR Patients Through a Myokinetic Control Interface for the Control of Artificial Hands. IEEE Robotics and Automation Letters, 2022, 7, 7240-7246.	5.1	1
53	Evaluation of time-frequency features as detectors of lack of balance due to tripping-like perturbations. , 2019, 2019, 2443-2446.		0
54	Ballistic skills assessment in semi-professional football players through inertial sensors: the effects of COVID-19 forced rest period. , 2021, , .		0

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55	Deep Echo State Networks for Functional Ambulation Categories Estimation. , 2021, , .		0
56	Step counting for slow and intermittent ambulation based on a smartwatch accelerometer. , 2017, , .		0
57	Effects of Gait Speed on the Margin of Stability in Healthy Young Adults. Biosystems and Biorobotics, 2019, , 420-424.	0.3	0
58	The "chronically critical ill" patient: characteristics of a population of patients admitted to a pulmonary rehabilitation unit. , 2020, , .		0
59	Quantitative Analysis of Performance Recovery in Semi-Professional Football Players after the COVID-19 Forced Rest Period. Sensors, 2022, 22, 242.	3.8	0