

# Alessandro Leone

## List of Publications by Year in descending order

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Version: 2024-02-01

85  
papers

1,090  
citations

516710

16  
h-index

477307

29  
g-index

92  
all docs

92  
docs citations

92  
times ranked

1109  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shadow detection for moving objects based on texture analysis. Pattern Recognition, 2007, 40, 1222-1233.	8.1	173
2	A Radar-Based Smart Sensor for Unobtrusive Elderly Monitoring in Ambient Assisted Living Applications. Biosensors, 2017, 7, 55.	4.7	92
3	Aroma analysis by GC/MS and electronic nose dedicated to Negroamaro and Primitivo typical Italian Apulian wines. Sensors and Actuators B: Chemical, 2013, 179, 259-269.	7.8	70
4	Detecting falls with 3D range camera in ambient assisted living applications: A preliminary study. Medical Engineering and Physics, 2011, 33, 770-781.	1.7	69
5	People occupancy detection and profiling with 3D depth sensors for building energy management. Energy and Buildings, 2015, 92, 246-266.	6.7	61
6	Supervised machine learning scheme for electromyography-based pre-fall detection system. Expert Systems With Applications, 2018, 100, 95-105.	7.6	58
7	Supervised Expert System for Wearable MEMS Accelerometer-Based Fall Detector. Journal of Sensors, 2013, 2013, 1-11.	1.1	44
8	Deep transfer learning approaches for bleeding detection in endoscopy images. Computerized Medical Imaging and Graphics, 2021, 88, 101852.	5.8	43
9	Human posture recognition with a time-of-flight 3D sensor for in-home applications. Expert Systems With Applications, 2013, 40, 744-751.	7.6	32
10	Surface plasmon resonance imaging technique for nucleic acid detection. Sensors and Actuators B: Chemical, 2008, 130, 82-87.	7.8	27
11	A Wearable EMG-based System Pre-fall Detector. Procedia Engineering, 2015, 120, 455-458.	1.2	27
12	A hardware-software framework for high-reliability people fall detection. , 2008, , .		25
13	A shadow elimination approach in video-surveillance context. Pattern Recognition Letters, 2006, 27, 345-355.	4.2	23
14	Comparison Between Deep Learning Models and Traditional Machine Learning Approaches for Facial Expression Recognition in Ageing Adults. Journal of Computer Science and Technology, 2020, 35, 1127-1146.	1.5	23
15	A powerful method for feature extraction and compression of electronic nose responses. Sensors and Actuators B: Chemical, 2005, 105, 378-392.	7.8	21
16	Human work sustainability tool. Journal of Manufacturing Systems, 2022, 62, 76-86.	13.9	19
17	In-home hierarchical posture classification with a time-of-flight 3D sensor. Gait and Posture, 2014, 39, 182-187.	1.4	16
18	Human posture recognition using active contours and radial basis function neural network. , 0, , .		15

#	ARTICLE	IF	CITATIONS
19	Comparative Analysis of Supervised Classifiers for the Evaluation of Sarcopenia Using a sEMG-Based Platform. <i>Sensors</i> , 2022, 22, 2721.	3.8	15
20	A networked multisensor system for ambient assisted living application. , 2009, , .		14
21	Multi sensors platform for stress monitoring of workers in smart manufacturing context. , 2020, , .		13
22	An integrated system for people fall-detection with data fusion capabilities based on 3D ToF camera and wireless accelerometer. , 2010, , .		12
23	A texture-based approach for shadow detection. , 0, , .		11
24	A fully automated approach for underwater mosaicking. , 2006, , .		11
25	Geodesic-based human posture analysis by using a single 3D TOF camera. , 2011, , .		11
26	AI-Based Early Change Detection in Smart Living Environments. <i>Sensors</i> , 2019, 19, 3549.	3.8	10
27	Smart EMG-based Socks for Leg Muscles Contraction Assessment. , 2019, , .		10
28	Modeling, Fabrication and Integration of Wearable Smart Sensors in a Monitoring Platform for Diabetic Patients. <i>Sensors</i> , 2021, 21, 1847.	3.8	9
29	Posture estimation in visual surveillance of archaeological sites. , 0, , .		8
30	Support Vector Machine for tri-axial accelerometer-based fall detector. , 2013, , .		8
31	Sensorized Insole for Diabetic Foot Monitoring. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	7
32	Vision-Based Road Rage Detection Framework in Automotive Safety Applications. <i>Sensors</i> , 2021, 21, 2942.	3.8	7
33	Dancing With Parkinson's Disease: The SI-ROBOTICS Study Protocol. <i>Frontiers in Public Health</i> , 2021, 9, 780098.	2.7	7
34	Cognitive Home Rehabilitation in Alzheimerâ€™s Disease Patients by a Virtual Personal Trainer. , 2014, , 147-155.		6
35	An EMG-based system for pre-impact fall detection. , 2015, , .		6
36	Alzheimer Patientâ€™s Home Rehabilitation Through ICT Advanced Technologies: The ALTRUISM Project. <i>Biosystems and Biorobotics</i> , 2015, , 377-385.	0.3	6

#	ARTICLE	IF	CITATIONS
37	Stereoscopic System for 3-D Seabed Mosaic Reconstruction. , 2007, , .		5
38	Context-Aware AAL Services through a 3D Sensor-Based Platform. Journal of Sensors, 2013, 2013, 1-10.	1.1	5
39	Fall risk evaluation by surface electromyography technology. , 2017, , .		5
40	Objective assessment of physical activity and sedentary time of older adults using ambient and wearable sensor technologies. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 1961-1973.	4.9	4
41	Remaining Useful Life Prediction from 3D Scan Data with Genetically Optimized Convolutional Neural Networks. Sensors, 2021, 21, 6772.	3.8	4
42	Microsystem Technology for Ambient Assisted Living (AAL). Procedia Chemistry, 2009, 1, 710-713.	0.7	3
43	Topological and volumetric posture recognition with active vision sensor in AAL contexts. , 2011, , .		3
44	Heterogeneous sensor platform for circadian rhythm analysis. , 2015, , .		3
45	An open NFC-based platform for vital signs monitoring. , 2015, , .		3
46	Detecting falls and vital signs via radar sensing. , 2017, , .		3
47	A Fall Detector Based on Ultra-Wideband Radar Sensing. Lecture Notes in Electrical Engineering, 2018, , 373-382.	0.4	3
48	Supervised Machine Learning Scheme for Wearable Accelerometer-Based Fall Detector. Lecture Notes in Electrical Engineering, 2014, , 295-299.	0.4	3
49	Ambient and Wearable Sensor Technologies for Energy Expenditure Quantification of Ageing Adults. Sensors, 2022, 22, 4893.	3.8	3
50	Supervised machine learning scheme for tri-axial accelerometer-based fall detector. , 2013, , .		2
51	Supervised wearable wireless system for fall detection. , 2013, , .		2
52	A Virtual Trainer by Natural User Interface for Cognitive Rehabilitation in Dementia. Lecture Notes in Computer Science, 2014, , 300-309.	1.3	2
53	Big Data Analytics in Smart Living Environments for Elderly Monitoring. Lecture Notes in Electrical Engineering, 2019, , 301-309.	0.4	2
54	Smart Insole for Diabetic Foot Monitoring. Lecture Notes in Electrical Engineering, 2019, , 571-577.	0.4	2

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55	Facial Expression Recognition in Ageing Adults: A Comparative Study. Lecture Notes in Electrical Engineering, 2019, , 349-359.	0.4	2
56	A Near Field Communication-Based Platform for Mobile Ambient Assisted Living Applications. Biosystems and Biorobotics, 2015, , 125-132.	0.3	2
57	GOJI an Advanced Virtual Environment Supporting Training of Physical and Cognitive Activities to Prevent Dementia Occurrence in Elderly with Minor Cognitive Disorders. Biosystems and Biorobotics, 2015, , 429-437.	0.3	2
58	Multi-sensor Platform for Detection of Anomalies in Human Sleep Patterns. Lecture Notes in Electrical Engineering, 2018, , 276-285.	0.4	2
59	An automated active vision system for fall detection and posture analysis in Ambient Assisted Living applications. , 2010, , .		1
60	A multi-feature scheme for posture recognition with 3D TOF sensor. , 2012, , .		1
61	A preliminary study on fall risk evaluation through electromiography systems. , 2015, , .		1
62	Radar Sensing of Vital Signs in Assisted Living Applications. Lecture Notes in Electrical Engineering, 2019, , 3-22.	0.4	1
63	Fabrication of Flexible ALN Thin Film-Based Piezoelectric Pressure Sensor for Integration Into an Implantable Artificial Pancreas. Lecture Notes in Electrical Engineering, 2019, , 343-347.	0.4	1
64	Biometric Parameters Assessment for Foot Ulcers Prevention Through Wearable Devices. Lecture Notes in Electrical Engineering, 2020, , 1-7.	0.4	1
65	Supporting Physical and Cognitive Training for Preventing the Occurrence of Dementia Using an Integrated System: A Pilot Study. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 367-374.	0.3	1
66	A natural user-interface based platform for cognitive rehabilitation in Alzheimerâ€™s disease patients. Gerontechnology, 2014, 13, .	0.1	1
67	Design and Evaluation of an ICT Platform for Cognitive Stimulation of Alzheimerâ€™s Disease Patients. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 106-115.	0.3	1
68	Multi-sensor Platform for Automatic Assessment of Physical Activity of Older Adults. Lecture Notes in Electrical Engineering, 2019, , 417-427.	0.4	1
69	TOF Sensor Network for AAL Monitoring Services. Procedia Computer Science, 2013, 19, 511-515.	2.0	0
70	Open and low power near field communication-based platform in healthcare applications. , 2014, , .		0
71	Unobtrusive Technology for In-Home Monitoring: Preliminary Results on Fall Detection. Lecture Notes in Electrical Engineering, 2017, , 119-126.	0.4	0
72	Multi Sensorial Stimulation Lab: A New Approach for Severe Dementia. Lecture Notes in Electrical Engineering, 2021, , 65-81.	0.4	0

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73	Analysis of Skeletal Muscles Contractility Using Smart SEMG-Based Socks. Lecture Notes in Electrical Engineering, 2021, , 39-47.	0.4	0
74	Guest editorial: the Italian perspective of AAL services and technologies. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 4407-4408.	4.9	0
75	Range Imaging for Fall Detection and Posture Analysis in Ambient Assisted Living Applications. Lecture Notes in Electrical Engineering, 2011, , 397-401.	0.4	0
76	TOF Cameras in Ambient Assisted Living Applications. , 2013, , 203-240.		0
77	Time-of-Flight Sensor-Based Platform for Posture Recognition in AAL Applications. Lecture Notes in Electrical Engineering, 2014, , 207-211.	0.4	0
78	Expert System for Wearable Fall Detector. , 2014, , 99-106.		0
79	Care@Home: Methodology, Goals and Project Experimentation Activities. Biosystems and Biorobotics, 2015, , 307-316.	0.3	0
80	Fall Risk Evaluation by Electromyography Solutions. Lecture Notes in Electrical Engineering, 2017, , 279-285.	0.4	0
81	Radar-Based Fall Detection Using Deep Machine Learning: System Configuration and Performance. Lecture Notes in Electrical Engineering, 2018, , 257-268.	0.4	0
82	RGB-D Sensor for Facial Expression Recognition in AAL Context. Lecture Notes in Electrical Engineering, 2018, , 313-321.	0.4	0
83	Fully Integrated Smart Insole for Diabetic Foot. Lecture Notes in Electrical Engineering, 2019, , 221-228.	0.4	0
84	Learning Approaches for Facial Expression Recognition in Ageing Adults: A Comparative Study. Intelligent Systems Reference Library, 2021, , 309-333.	1.2	0
85	Behavioral Change Prediction from Physiological Signals Using Deep Learned Features. Sensors, 2022, 22, 3468.	3.8	0