Emanuele Menegatti

List of Publications by Citations

118 papers	1,263 citations	18 h-index	31 g-index
136 ext. papers	1,650 ext. citations	2.1 avg, IF	5.08 L-index

#	Paper	IF	Citations
118	Fast RGB-D people tracking for service robots. *Autonomous Robots*, **2014**, 37, 227-242	3	97
117	Tracking people within groups with RGB-D data **2012**,		75
116	A robust and easy to implement method for IMU calibration without external equipments **2014**,		72
115	Range-only SLAM with a mobile robot and a Wireless Sensor Networks **2009**,		66
114	A portable three-dimensional LIDAR-based system for long-term and wide-area people behavior measurement. *International Journal of Advanced Robotic Systems*, **2019**, 16, 172988141984153	1.4	65
113	OpenPTrack: Open source multi-camera calibration and people tracking for RGB-D camera networks. *Robotics and Autonomous Systems*, **2016**, 75, 525-538	3.5	62
112	Different approaches for extracting information from the co-occurrence matrix. *PLoS ONE*, **2013**, 8, e83554	3.7	61
111	3D reconstruction of freely moving persons for re-identification with a depth sensor **2014**,		53
110	One-Shot Person Re-identification with a Consumer Depth Camera **2014**, 161-181		47
109	A visual odometry framework robust to motion blur **2009**,		39
108	A feature-based approach to people re-identification using skeleton keypoints **2014**,		32
107	General Hand-Eye Calibration Based on Reprojection Error Minimization. *IEEE Robotics and Automation Letters*, **2019**, 4, 1021-1028	4.2	27
106	Flexible 3D localization of planar objects for industrial bin-picking with monocamera vision system **2013**,		21
105	. *IEEE Transactions on Robotics*, **2018**, 34, 1315-1332	6.5	20
104	Educational Robotics for children with neurodevelopmental disorders: A systematic review. *Heliyon*, **2020**, 6, e05160	3.6	19
103	Brain-Computer Interface Meets ROS: A Robotic Approach to Mentally Drive Telepresence Robots **2018**,		19
102	Unsupervised intrinsic and extrinsic calibration of a camera-depth sensor couple **2014**,		18

101	A BCI Teleoperated Museum Robotic Guide **2009**,		18
100	A comparison of methods for extracting information from the co-occurrence matrix for subcellular classification. *Expert Systems With Applications*, **2013**, 40, 7457-7467	7.8	17
99	Omnidirectional dense large-scale mapping and navigation based on meaningful triangulation **2011** ,		17
98	Improving the descriptors extracted from the co-occurrence matrix using preprocessing approaches. *Expert Systems With Applications*, **2015**, 42, 8989-9000	7.8	14
97	Fast and Robust Multi-people Tracking from RGB-D Data for a Mobile Robot. *Advances in Intelligent Systems and Computing*, **2013**, 265-276	0.4	14
96	Quaternion Equivariant Capsule Networks for 3D Point Clouds. *Lecture Notes in Computer Science*, **2020**, 1-19	0.9	13
95	Teaching humanoid robotics by means of human teleoperation through RGB-D sensors. *Robotics and Autonomous Systems*, **2016**, 75, 671-678	3.5	12
94	Hybrid Human-Machine Interface for Gait Decoding Through Bayesian Fusion of EEG and EMG Classifiers. *Frontiers in Neurorobotics*, **2020**, 14, 582728	3.4	12
93	RGB-D Human Detection and Tracking for Industrial Environments. *Advances in Intelligent Systems and Computing*, **2016**, 1655-1668	0.4	11
92	Learning how to approach industrial robot tasks from natural demonstrations **2013**,		11
91	Teachers Opinions towards Educational Robotics for Special Needs Students: An Exploratory Italian Study. *Robotics*, **2020**, 9, 72	2.8	11
90	Cost-efficient RGB-D smart camera for people detection and tracking. *Journal of Electronic Imaging*, **2016**, 25, 041007	0.7	11
89	Why teach robotics using ROS?. *Journal of Automation, Mobile Robotics and Intelligent Systems*, **2014**, 8, 60-68	1	10
88	Teaching by touching: An intuitive method for development of humanoid robot motions **2007**,		10
87	Monocular person tracking and identification with on-line deep feature selection for person following robots. *Robotics and Autonomous Systems*, **2020**, 124, 103348	3.5	10
86	Ensemble of different approaches for a reliable person re-identification system. *Applied Computing and Informatics*, **2016**, 12, 142-153	4.2	9
85	A Training Course in Educational Robotics for Learning Support Teachers. *Advances in Intelligent Systems and Computing*, **2017**, 43-57	0.4	9
84	A distributed perception infrastructure for robot assisted living. *Robotics and Autonomous Systems*, **2014**, 62, 1316-1328	3.5	9

No.	Title	IF	Cites
83	Fast and robust detection of fallen people from a mobile robot **2017**,		9
82	Behavioral and Cortical Effects during Attention Driven Brain-Computer Interface Operations in Spatial Neglect: A Feasibility Case Study. *Frontiers in Human Neuroscience*, **2017**, 11, 336	3.3	9
81	Cooperative tracking of moving objects and face detection with a dual camera sensor **2010**,		9
80	ROS-I Interface for COMAU Robots. *Lecture Notes in Computer Science*, **2014**, 243-254	0.9	9
79	The RoboESL Project. *International Journal of Smart Education and Urban Society*, **2018**, 9, 48-60	0.6	9
78	GMM-Based Single-Joint Angle Estimation Using EMG Signals. *Advances in Intelligent Systems and Computing*, **2016**, 1173-1184	0.4	8
77	A thermographic visual inspection system for crack detection in metal parts exploiting a robotic workcell. *Robotics and Autonomous Systems*, **2015**, 74, 351-359	3.5	7
76	Reliable features matching for humanoid robots **2007**,		7
75	Using robotics to train students for Industry 4.0. *IFAC-PapersOnLine*, **2019**, 52, 153-158	0.7	6
74	ROS-health: An open-source framework for neurorobotics **2018**,		6
73	3D MODELS OF HUMANOID SOCCER ROBOT IN USARSim AND ROBOTICS STUDIO SIMULATORS. *International Journal of Humanoid Robotics*, **2008**, 05, 523-546	1.2	6
72	Cortical correlates in upright dynamic and static balance in the elderly. *Scientific Reports*, **2021**, 11, 14132	4.9	6
71	RUR53: an unmanned ground vehicle for navigation, recognition, and manipulation. *Advanced Robotics*, **2021**, 35, 1-18	1.7	6
70	Muscular and cortical activation during dynamic and static balance in the elderly: A scoping review. *Aging Brain*, **2021**, 1, 100013		6
69	. *IEEE Transactions on Automation Science and Engineering*, **2015**, 12, 596-607	4.9	5
68	People tracking and re-identification by face recognition for RGB-D camera networks **2017**,		5
67	Robust multiple object tracking in RGB-D camera networks **2017**,		5
66	Autonomous robot exploration in smart environments exploiting wireless sensors and visual features. *Annales Des Telecommunications/Annals of Telecommunications*, **2012**, 67, 297-311	2	5

65	Discovery, Localization and Recognition of Smart Objects by a Mobile Robot. *Lecture Notes in Computer Science*, **2010**, 436-448	0.9	5
64	A Software Architecture for RGB-D People Tracking Based on ROS Framework for a Mobile Robot. *Studies in Computational Intelligence*, **2013**, 53-68	0.8	5
63	**2019**,		5
62	Real-Time Marker-Less Multi-person 3D Pose Estimation in RGB-Depth Camera Networks. *Advances in Intelligent Systems and Computing*, **2019**, 534-545	0.4	5
61	Skeleton estimation and tracking by means of depth data fusion from depth camera networks. *Robotics and Autonomous Systems*, **2018**, 110, 151-159	3.5	5
60	Shared Intelligence for Robot Teleoperation via BMI. *IEEE Transactions on Human-Machine Systems*, **2022**, 1-10	4.1	4
59	A Systematic Review on Motor-Imagery Brain-Connectivity-Based Computer Interfaces. *IEEE Transactions on Human-Machine Systems*, **2021**, 1-9	4.1	4
58	WorkCellSimulator: A 3D Simulator for Intelligent Manufacturing. *Lecture Notes in Computer Science* , **2012**, 311-322	0.9	4
57	Dual-Myo Real-Time Control of a Humanoid Arm for Teleoperation **2019**,		3
56	3DComplete: Efficient completeness inspection using a 2.5D color scanner. *Computers in Industry*, **2013**, 64, 1237-1252	11.6	3
55	**2011**,		3
54	Teaching by touching: Interpretation of tactile instructions for motion development **2011**,		3
53	Omnidirectional Distributed Vision System for a Team of Heterogeneous Robots **2003**,		3
52	Teaching Robot Programming for Industry 4.0. *Advances in Intelligent Systems and Computing*, **2020**, 107-119	1.1	3
51	Shared-Autonomy Navigation for Mobile Robots Driven by a Door Detection Module. *Lecture Notes in Computer Science*, **2019**, 511-527	0.9	3
50	Robotic Object Sorting via Deep Reinforcement Learning: a generalized approach **2020**,		3
49	A preliminary investigation of using humanoid social robots as non-pharmacological techniques with children **2019**,		3
48	Towards a Brain-Robot Interface for children **2019**,		3

47	Entropy-based Motion Intention Identification for Brain-Computer Interface **2019**,		3
46	ROS-Neuro: A common middleware for BMI and robotics. The acquisition and recorder packages **2019**,		3
45	Sex differences in expectations and perception of a social robot **2018**,		3
44	Multi-View 3D Entangled Forest for Semantic Segmentation and Mapping **2018**,		3
43	Receding Horizon Task and Motion Planning in Changing Environments. *Robotics and Autonomous Systems*, **2021**, 145, 103863	3.5	3
42	Autonomous robotic system for thermographic detection of defects in upper layers of carbon fiber reinforced polymers **2015**,		2
41	How Robots Impact Students' Beliefs about Their Learning Skills **2018**,		2
40	A Fair Wage for Workers On-demand via App **2018**, 67-92		2
39	A fully automatic hand-eye calibration system **2017**,		2
38	A geometric approach to multiple viewpoint human body pose estimation **2015**,		2
37	Audio-video people recognition system for an intelligent environment **2011**,		2
36	COMBINING AUDIO AND VIDEO SURVEILLANCE WITH A MOBILE ROBOT. *International Journal on Artificial Intelligence Tools*, **2007**, 16, 377-398	0.9	2
35	Discrimination of Walking and Standing from Entropy of EEG Signals and Common Spatial Patterns **2020**,		2
34	On the Accuracy of IMUs for Human Motion Tracking: a Comparative Evaluation **2021**,		2
33	Efficient Completeness Inspection Using Real-Time 3D Color Reconstruction with a Dual-Laser Triangulation System. *Advances in Computer Vision and Pattern Recognition*, **2015**, 201-225	1.1	2
32	A Knowledge-Based Approach to Crack Detection in Thermographic Images. *Advances in Intelligent Systems and Computing*, **2016**, 1701-1713	0.4	1
31	Development of intelligent service robots. *Intelligenza Artificiale*, **2013**, 7, 139-152	0.7	1
30	Visual odometry for an omnidirectional-drive robot **2009**,		1

29	A Critical Reflection on the Expectations About the Impact of Educational Robotics on Problem Solving Capability. *Advances in Intelligent Systems and Computing*, **2019**, 877-888	0.4	1
28	A Powerful and Cost-Efficient Human Perception System for Camera Networks and Mobile Robotics. *Advances in Intelligent Systems and Computing*, **2017**, 485-497	0.4	1
27	Depth-Based Frontal View Generation for Pose Invariant Face Recognition with Consumer RGB-D Sensors. *Advances in Intelligent Systems and Computing*, **2017**, 925-937	0.4	1
26	Improved Skeleton Estimation by Means of Depth Data Fusion from Multiple Depth Cameras. *Advances in Intelligent Systems and Computing*, **2017**, 1155-1167	0.4	1
25	Efficient Measurement of Fibre Orientation for Mapping Carbon Fibre Parts with a Robotic System. *Advances in Intelligent Systems and Computing*, **2017**, 757-769	0.4	1
24	SPIRIT - A Software Framework for the Efficient Setup of Industrial Inspection Robots **2020**,		1
23	Muscle synergies for reliable NAO arm motion control: An online simulation with real-time constraints **2016**,		1
22	Real-time Tracking-by-Detection of Human Motion in RGB-D Camera Networks **2019**,		1
21	Making an Opportunity Out of a Crisis: The Inclusive Approach of the Italian Robotics Community. *IEEE Robotics and Automation Magazine*, **2021**, 2-14	3.4	1
20	Educational Robotics Acceptance by Italian Teachers, Educators, Psychologists and Psychotherapists. *Studies in Computational Intelligence*, **2021**, 167-178	0.8	1
19	Shared Intelligence for User-Supervised Robots: From User's Commands to Robot's Actions. *Lecture Notes in Computer Science*, **2021**, 457-465	0.9	1
18	The "Good or Bad?" Game **2018**,		1
17	Brain-Driven Telepresence Robots: A Fusion of User's Commands with Robot's Intelligence. *Lecture Notes in Computer Science*, **2021**, 235-248	0.9	1
16	Shared Control in Robot Teleoperation With Improved Potential Fields. *IEEE Transactions on Human-Machine Systems*, **2022**, 1-13	4.1	1
15	Non-overlapping RGB-D Camera Network Calibration with Monocular Visual Odometry		0
14	MS3D: Mean-Shift Object Tracking Boosted by Joint Back Projection of Color and Depth. *Advances in Intelligent Systems and Computing*, **2019**, 222-236	0.4	
13	Smart Check 3D: An Industrial Inspection System Combining 3D Vision with Automatic Planning of Inspection Viewpoints. *Advances in Computer Vision and Pattern Recognition*, **2015**, 377-392	1.1	
12	Collection of Kinematic and Kinetic Data of Young and Adult, Male and Female Subjects Performing Periodic and Transient Gait Tasks for Gait Pattern Recognition. *Proceedings (mdpi)*, **2020**, 49, 6	0.3	

11	Clustering of Humanoid Robot Motions Executed in Response to Touch. *Advances in Intelligent Systems and Computing*, **2016**, 1063-1076	0.4
10	An Intuitive Teleoperation of Industrial Robots. *Advances in Civil and Industrial Engineering Book Series*,243-261	0.5
9	An Intuitive Teleoperation of Industrial Robots **2019**, 1067-1085	
8	Badges Are Back! - Fostering Self-assessment During Personalised Learning in Making and Digital Fabrication. *Advances in Intelligent Systems and Computing*, **2020**, 83-91	0.4
7	The RoboESL Project **2020**, 1798-1811	
6	A Distributed Calibration Algorithm for Color and Range Camera Networks. *Studies in Computational Intelligence*, **2016**, 413-436	0.8
5	2A1-E20 Motion development as direct CPG adjustment by touching. *The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)*, **2009**, 2009, _2A1-E20_1-_2A1-E20_4	0
4	Simultaneous Localization of Robots and Mapping of Wireless Sensor Nodes. *Studies in Computational Intelligence*, **2014**, 3-23	0.8
3	A Constraint Based Motion Optimization System for Quality Inspection Process Improvement. *Lecture Notes in Computer Science*, **2014**, 545-553	0.9
2	Weighted Shared-Autonomy with Assistance-to-Target and Collision Avoidance for Intelligent Assistive Robotics. *Lecture Notes in Networks and Systems*, **2022**, 580-593	0.5
1	Age-related differences in visual P300 ERP during dual-task postural balance. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2021**, 2021, 6511-6514	0.9