Emanuele Menegatti

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Shared Intelligence for Robot Teleoperation via BMI. *IEEE Transactions on Human-Machine Systems*, **2022**, 1-10	4.1	4
117	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	
116	Shared Control in Robot Teleoperation With Improved Potential Fields. *IEEE Transactions on Human-Machine Systems*, **2022**, 1-13	4.1	1
115	A Systematic Review on Motor-Imagery Brain-Connectivity-Based Computer Interfaces. *IEEE Transactions on Human-Machine Systems*, **2021**, 1-9	4.1	4
114	On the Accuracy of IMUs for Human Motion Tracking: a Comparative Evaluation **2021**,		2
113	Cortical correlates in upright dynamic and static balance in the elderly. *Scientific Reports*, **2021**, 11, 14132	4.9	6
112	RUR53: an unmanned ground vehicle for navigation, recognition, and manipulation. *Advanced Robotics*, **2021**, 35, 1-18	1.7	6
111	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
110	Educational Robotics Acceptance by Italian Teachers, Educators, Psychologists and Psychotherapists. *Studies in Computational Intelligence*, **2021**, 167-178	0.8	1
109	Shared Intelligence for User-Supervised Robots: From Users Commands to Robots Actions. *Lecture Notes in Computer Science*, **2021**, 457-465	0.9	1
108	Receding Horizon Task and Motion Planning in Changing Environments. *Robotics and Autonomous Systems*, **2021**, 145, 103863	3.5	3
107	Brain-Driven Telepresence Robots: A Fusion of Users Commands with Robots Intelligence. *Lecture Notes in Computer Science*, **2021**, 235-248	0.9	1
106	Muscular and cortical activation during dynamic and static balance in the elderly: A scoping review. *Aging Brain*, **2021**, 1, 100013		6
105	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	
104	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	
103	Discrimination of Walking and Standing from Entropy of EEG Signals and Common Spatial Patterns **2020**,		2
102	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	

101	The RoboESL Project **2020**, 1798-1811		
100	Teaching Robot Programming for Industry 4.0. *Advances in Intelligent Systems and Computing*, **2020**, 107-119	0.4	3
99	Quaternion Equivariant Capsule Networks for 3D Point Clouds. *Lecture Notes in Computer Science*, **2020**, 1-19	0.9	13
98	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
97	Teachers Opinions towards Educational Robotics for Special Needs Students: An Exploratory Italian Study. *Robotics*, **2020**, 9, 72	2.8	11
96	Educational Robotics for children with neurodevelopmental disorders: A systematic review. *Heliyon* , **2020**, 6, e05160	3.6	19
95	Hybrid Human-Machine Interface for Gait Decoding Through Bayesian Fusion of EEG and EMG Classifiers. *Frontiers in Neurorobotics*, **2020**, 14, 582728	3.4	12
94	SPIRIT - A Software Framework for the Efficient Setup of Industrial Inspection Robots **2020**,		1
93	Robotic Object Sorting via Deep Reinforcement Learning: a generalized approach **2020**,		3
92	Using robotics to train students for Industry 4.0. *IFAC-PapersOnLine*, **2019**, 52, 153-158	0.7	6
91	General Hand Eye Calibration Based on Reprojection Error Minimization. *IEEE Robotics and Automation Letters*, **2019**, 4, 1021-1028	4.2	27
90	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
89	Dual-Myo Real-Time Control of a Humanoid Arm for Teleoperation **2019**,		3
88	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	
87	An Intuitive Teleoperation of Industrial Robots **2019**, 1067-1085		
86	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
85	Shared-Autonomy Navigation for Mobile Robots Driven by a Door Detection Module. *Lecture Notes in Computer Science*, **2019**, 511-527	0.9	3
84	A preliminary investigation of using humanoid social robots as non-pharmacological techniques with children **2019**,		3

83	Towards a Brain-Robot Interface for children **2019**,		3
82	Entropy-based Motion Intention Identification for Brain-Computer Interface **2019**,		3
81	**2019**,		5
80	ROS-Neuro: A common middleware for BMI and robotics. The acquisition and recorder packages **2019**,		3
79	Real-time Tracking-by-Detection of Human Motion in RGB-D Camera Networks **2019**,		1
78	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
77	How Robots Impact Students' Beliefs about Their Learning Skills **2018**,		2
76	. *IEEE Transactions on Robotics*, **2018**, 34, 1315-1332	6.5	20
75	A Fair Wage for Workers On-demand via App **2018**, 67-92		2
74	ROS-health: An open-source framework for neurorobotics **2018**,		6
73	The RoboESL Project. *International Journal of Smart Education and Urban Society*, **2018**, 9, 48-60	0.6	9
72	Sex differences in expectations and perception of a social robot **2018**,		3
71	The "Good or Bad?" Game **2018**,		1
70	Multi-View 3D Entangled Forest for Semantic Segmentation and Mapping **2018**,		3
69	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
68	Brain-Computer Interface Meets ROS: A Robotic Approach to Mentally Drive Telepresence Robots **2018**,		19
67	A Training Course in Educational Robotics for Learning Support Teachers. *Advances in Intelligent Systems and Computing*, **2017**, 43-57	0.4	9
66	People tracking and re-identification by face recognition for RGB-D camera networks **2017**,		5

65	A fully automatic hand-eye calibration system **2017**,		2
64	Fast and robust detection of fallen people from a mobile robot **2017**,		9
63	Robust multiple object tracking in RGB-D camera networks **2017**,		5
62	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
61	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
60	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
59	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
58	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
57	A Knowledge-Based Approach to Crack Detection in Thermographic Images. *Advances in Intelligent Systems and Computing*, **2016**, 1701-1713	0.4	1
56	Ensemble of different approaches for a reliable person re-identification system. *Applied Computing and Informatics*, **2016**, 12, 142-153	4.2	9
55	Clustering of Humanoid Robot Motions Executed in Response to Touch. *Advances in Intelligent Systems and Computing*, **2016**, 1063-1076	0.4	
54	Teaching humanoid robotics by means of human teleoperation through RGB-D sensors. *Robotics and Autonomous Systems*, **2016**, 75, 671-678	3.5	12
53	RGB-D Human Detection and Tracking for Industrial Environments. *Advances in Intelligent Systems and Computing*, **2016**, 1655-1668	0.4	11
52	GMM-Based Single-Joint Angle Estimation Using EMG Signals. *Advances in Intelligent Systems and Computing*, **2016**, 1173-1184	0.4	8
51	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
50	A Distributed Calibration Algorithm for Color and Range Camera Networks. *Studies in Computational Intelligence*, **2016**, 413-436	0.8	
49	Muscle synergies for reliable NAO arm motion control: An online simulation with real-time constraints **2016**,		1
48	Cost-efficient RGB-D smart camera for people detection and tracking. *Journal of Electronic Imaging*, **2016**, 25, 041007	0.7	11

47	Improving the descriptors extracted from the co-occurrence matrix using preprocessing approaches. *Expert Systems With Applications*, **2015**, 42, 8989-9000	7.8	14
46	. *IEEE Transactions on Automation Science and Engineering*, **2015**, 12, 596-607	4.9	5
45	Autonomous robotic system for thermographic detection of defects in upper layers of carbon fiber reinforced polymers **2015**,		2
44	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
43	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	
42	A geometric approach to multiple viewpoint human body pose estimation **2015**,		2
41	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
40	Fast RGB-D people tracking for service robots. *Autonomous Robots*, **2014**, 37, 227-242	3	97
39	A distributed perception infrastructure for robot assisted living. *Robotics and Autonomous Systems*, **2014**, 62, 1316-1328	3.5	9
38	A robust and easy to implement method for IMU calibration without external equipments **2014**,		72
37	A feature-based approach to people re-identification using skeleton keypoints **2014**,		32
36	One-Shot Person Re-identification with a Consumer Depth Camera **2014**, 161-181		47
35	3D reconstruction of freely moving persons for re-identification with a depth sensor **2014**,		53
34	Unsupervised intrinsic and extrinsic calibration of a camera-depth sensor couple **2014**,		18
33	Why teach robotics using ROS?. *Journal of Automation, Mobile Robotics and Intelligent Systems*, **2014**, 8, 60-68	1	10
32	ROS-I Interface for COMAU Robots. *Lecture Notes in Computer Science*, **2014**, 243-254	0.9	9
31	Simultaneous Localization of Robots and Mapping of Wireless Sensor Nodes. *Studies in Computational Intelligence*, **2014**, 3-23	0.8	
30	A Constraint Based Motion Optimization System for Quality Inspection Process Improvement. *Lecture Notes in Computer Science*, **2014**, 545-553	0.9	

29	Development of intelligent service robots. *Intelligenza Artificiale*, **2013**, 7, 139-152	0.7	1
28	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
27	Learning how to approach industrial robot tasks from natural demonstrations **2013**,		11
26	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
25	3DComplete: Efficient completeness inspection using a 2.5D color scanner. *Computers in Industry*, **2013**, 64, 1237-1252	11.6	3
24	Flexible 3D localization of planar objects for industrial bin-picking with monocamera vision system **2013**,		21
23	Different approaches for extracting information from the co-occurrence matrix. *PLoS ONE*, **2013**, 8, e83554	3.7	61
22	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
21	Tracking people within groups with RGB-D data **2012**,		75
20	Autonomous robot exploration in smart environments exploiting wireless sensors and visual features. *Annales Des Telecommunications/Annals of Telecommunications*, **2012**, 67, 297-311	2	5
19	WorkCellSimulator: A 3D Simulator for Intelligent Manufacturing. *Lecture Notes in Computer Science* , **2012**, 311-322	0.9	4
18	Omnidirectional dense large-scale mapping and navigation based on meaningful triangulation **2011** ,		17
17	**2011**,		3
16	Teaching by touching: Interpretation of tactile instructions for motion development **2011**,		3
15	Audio-video people recognition system for an intelligent environment **2011**,		2
14	Cooperative tracking of moving objects and face detection with a dual camera sensor **2010**,		9
13	Discovery, Localization and Recognition of Smart Objects by a Mobile Robot. *Lecture Notes in Computer Science*, **2010**, 436-448	0.9	5
12	A visual odometry framework robust to motion blur **2009**,		39

11	Range-only SLAM with a mobile robot and a Wireless Sensor Networks **2009**,		66
10	A BCI Teleoperated Museum Robotic Guide **2009**,		18
9	Visual odometry for an omnidirectional-drive robot **2009**,		1
8	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	
7	3D MODELS OF HUMANOID SOCCER ROBOT IN USARSim AND ROBOTICS STUDIO SIMULATORS. *International Journal of Humanoid Robotics*, **2008**, 05, 523-546	1.2	6
6	Reliable features matching for humanoid robots **2007**,		7
5	COMBINING AUDIO AND VIDEO SURVEILLANCE WITH A MOBILE ROBOT. *International Journal on Artificial Intelligence Tools*, **2007**, 16, 377-398	0.9	2
4	Teaching by touching: An intuitive method for development of humanoid robot motions **2007**,		10
3	Omnidirectional Distributed Vision System for a Team of Heterogeneous Robots **2003**,		3
2	An Intuitive Teleoperation of Industrial Robots. *Advances in Civil and Industrial Engineering Book Series*,243-261	0.5	
1	Non-overlapping RGB-D Camera Network Calibration with Monocular Visual Odometry		0