Luca Tonin

List of Publications by Year
in descending order

30 papers	982 citations	932766 10 h-index	794141 19 g-index
30 all docs	30 docs citations	30 times ranked	935 citing authors

#	Article	IF	Citations
1	Shared Intelligence for Robot Teleoperation via BMI. IEEE Transactions on Human-Machine Systems, 2022, 52, 400-409.	2.5	9
2	ROS-Neuro: An Open-Source Platform for Neurorobotics. Frontiers in Neurorobotics, 2022, 16, .	1.6	5
3	Neural correlates of user learning during long-term BCI training for the Cybathlon competition. Journal of NeuroEngineering and Rehabilitation, 2022, 19, .	2.4	9
4	Noninvasive Brainâ€“Machine Interfaces for Robotic Devices. Annual Review of Control, Robotics, and Autonomous Systems, 2021, 4, 191-214.	7.5	30
5	Shared Intelligence for User-Supervised Robots: From Userâ€™s Commands toÂRobotâ€™s Actions. Lecture Notes in Computer Science, 2021, , 457-465.	1.0	2
6	Editorial: Advances in the Integration of Brain-Machine Interfaces and Robotic Devices. Frontiers in Robotics and AI, 2021, 8, 653615.	2.0	3
7	Experimental Protocol to Assess Neuromuscular Plasticity Induced by an Exoskeleton Training Session. Methods and Protocols, 2021, 4, 48.	0.9	10
8	Brain-Driven Telepresence Robots: A Fusion of Userâ€™s Commands withÂRobotâ€™s Intelligence. Lecture Notes in Computer Science, 2021, , 235-248.	1.0	1
9	The Role of the Control Framework for Continuous Teleoperation of a Brainâ€“Machine Interface-Driven Mobile Robot. IEEE Transactions on Robotics, 2020, 36, 78-91.	7.3	30
10	Real-time EEG Feedback on Alpha Power Lateralization Leads to Behavioral Improvements in a Covert Attention Task. Brain Topography, 2020, 33, 48-59.	0.8	9
11	Hybrid Human-Machine Interface for Gait Decoding Through Bayesian Fusion of EEG and EMG Classifiers. Frontiers in Neurorobotics, 2020, 14, 582728.	1.6	36
12	Uncovering EEG Correlates of Covert Attention in Soccer Goalkeepers: Towards Innovative Sport Training Procedures. Scientific Reports, 2020, 10, 1705.	1.6	16
13	ROS-Neuro: implementation of a closed-loop BMI based on motor imagery. , 2020, , .		4
14	Brain-Computer Interface for children: state-of-the-art and challenges*. , 2020, , .		2
15	Entropy-based Motion Intention Identification for Brain-Computer Interface. , 2019, , .		7
16	ROS-Neuro: A common middleware for BMI and robotics. The acquisition and recorder packages. , 2019, , .		9
17	Brain-Computer Interface Meets ROS: A Robotic Approach to Mentally Drive Telepresence Robots. , 2018, , .		24
18	The Cybathlon BCI race: Successful longitudinal mutual learning with two tetraplegic users. PLoS Biology, 2018, 16, e2003787.	2.6	111

#	Article	IF	Citations
19	ROS-health: An open-source framework for neurorobotics. , 2018, , .		9
20	Brain racers. IEEE Spectrum, 2017, 54, 44-51.	0.5	13
21	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.	1.0	10
22	GMM-Based Single-Joint Angle Estimation Using EMG Signals. Advances in Intelligent Systems and Computing, 2016, , 1173-1184.	0.5	13
23	Towards Independence: A BCI Telepresence Robot for People With Severe Motor Disabilities. Proceedings of the IEEE, 2015, 103, 969-982.	16.4	150
24	Transferring brainâ€“computer interfaces beyond the laboratory: Successful application control for motor-disabled users. Artificial Intelligence in Medicine, 2013, 59, 121-132.	3.8	131
25	A hybrid BCI for enhanced control of a telepresence robot. , 2013, 2013, 3097-100.		24
26	Looking around with your brain in a virtual world. , 2011, , .		1
27	Brain-controlled telepresence robot by motor-disabled people. , 2011, 2011, 4227-30.		85
28	Tools for brain-computer interaction: a general concept for a hybrid BCI. Frontiers in Neuroinformatics, 2011, 5, 30.	1.3	121
29	The role of shared-control in BCI-based telepresence. , 2010, , .		85
30	A BCI Teleoperated Museum Robotic Guide. , 2009, , .		23