

Giuseppe Averta

List of Publications by Year in descending order

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44
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citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Analysis of Upper-Limb Movements in the Cartesian Domain. Biosystems and Biorobotics, 2022, , 339-343.	0.2	0
2	A User-Centered Approach to Artificial Sensory Substitution for Blind People Assistance. Biosystems and Biorobotics, 2022, , 599-603.	0.2	0
3	Learning to Prevent Grasp Failure with Soft Hands: From Online Prediction to Dual-Arm Grasp Recovery. Advanced Intelligent Systems, 2022, 4, 2100146.	3.3	5
4	Learning to Prevent Grasp Failure with Soft Hands: From On-Line Prediction to Dual-Arm Grasp Recovery. Springer Tracts in Advanced Robotics, 2022, , 221-235.	0.3	1
5	Learning from Humans How to Grasp: A Reactive-Based Approach. Springer Tracts in Advanced Robotics, 2022, , 185-202.	0.3	1
6	Learning With Few Examples the Semantic Description of Novel Human-Inspired Grasp Strategies From RGB Data. IEEE Robotics and Automation Letters, 2022, 7, 2573-2580.	3.3	2
7	A low-dimensional representation of arm movements and hand grip forces in post-stroke individuals. Scientific Reports, 2022, 12, 7601.	1.6	3
8	Modeling Human Motor Skills to Enhance Robots' Physical Interaction. Springer Proceedings in Advanced Robotics, 2021, , 116-126.	0.9	0
9	Toward brain-heart computer interfaces: a study on the classification of upper limb movements using multisystem directional estimates. Journal of Neural Engineering, 2021, 18, 046002.	1.8	12
10	U-Limb: A multi-modal, multi-center database on arm motion control in healthy and post-stroke conditions. GigaScience, 2021, 10, .	3.3	18
11	Understanding Human Manipulation With the Environment: A Novel Taxonomy for Video Labelling. IEEE Robotics and Automation Letters, 2021, 6, 6537-6544.	3.3	8
12	A technical framework for human-like motion generation with autonomous anthropomorphic redundant manipulators. , 2020, , .		11
13	Enhancing Robot-Environment Physical Interaction via Optimal Impedance Profiles. , 2020, , .		10
14	A novel mechatronic system for evaluating elbow muscular spasticity relying on Tonic Stretch Reflex Threshold estimation. , 2020, 2020, 3839-3843.		4
15	Modeling Previous Trial Effect in Human Manipulation through Iterative Learning Control. Advanced Intelligent Systems, 2020, 2, 1900074.	3.3	1
16	Exploiting upper-limb functional principal components for human-like motion generation of anthropomorphic robots. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 63.	2.4	26
17	To grasp or not to grasp: an end-to-end deep-learning approach for predicting grasping failures in soft hands. , 2020, , .		7
18	Design and Validation of the Readable Device: A Single-Cell Electromagnetic Refreshable Braille Display. IEEE Transactions on Haptics, 2020, 13, 239-245.	1.8	27

#	ARTICLE	IF	CITATIONS
19	Kineto-Dynamic Modeling of Human Upper Limb for Robotic Manipulators and Assistive Applications. , 2020, , 23-51.		0
20	On the Time-Invariance Properties of Upper Limb Synergies. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1397-1406.	2.7	21
21	Learning From Humans How to Grasp: A Data-Driven Architecture for Autonomous Grasping With Anthropomorphic Soft Hands. IEEE Robotics and Automation Letters, 2019, 4, 1533-1540.	3.3	65
22	Predicting Object-Mediated Gestures From Brain Activity: An EEG Study on Gender Differences. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 411-418.	2.7	19
23	A functional analysis-based approach to quantify upper limb impairment level in chronic stroke patients: a pilot study. , 2019, 2019, 4198-4204.		16
24	A Synergistic Behavior Underpins Human Hand Grasping Force Control During Environmental Constraint Exploitation. Biosystems and Biorobotics, 2019, , 67-71.	0.2	0
25	Efficient Walking Gait Generation via Principal Component Representation of Optimal Trajectories: Application to a Planar Biped Robot With Elastic Joints. IEEE Robotics and Automation Letters, 2018, 3, 2299-2306.	3.3	21
26	EEG Complexity Maps to Characterise Brain Dynamics during Upper Limb Motor Imagery. , 2018, 2018, 3060-3063.		7
27	EEG Processing to Discriminate Transitive-Intransitive Motor Imagery Tasks: Preliminary Evidences using Support Vector Machines. , 2018, 2018, 231-234.		3
28	Touch-Based Grasp Primitives for Soft Hands: Applications to Human-to-Robot Handover Tasks and Beyond. , 2018, , .		18
29	Incrementality and Hierarchies in the Enrollment of Multiple Synergies for Grasp Planning. IEEE Robotics and Automation Letters, 2018, 3, 2686-2693.	3.3	23
30	Design of an under-actuated wrist based on adaptive synergies. , 2017, , .		18
31	From humans to robots: The role of cutaneous impairment in human environmental constraint exploitation to inform the design of robotic hands. , 2017, , .		5
32	Unveiling the Principal Modes of Human Upper Limb Movements through Functional Analysis. Frontiers in Robotics and AI, 2017, 4, .	2.0	38
33	Postural Hand Synergies during Environmental Constraint Exploitation. Frontiers in Neurobotics, 2017, 11, 41.	1.6	56