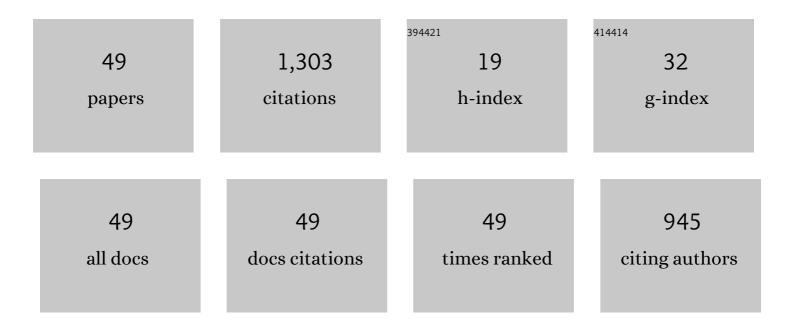
## Monica Malvezzi

List of Publications by Year in descending order

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MONICA MALVEZZI

#	Article	IF	CITATIONS
1	Modelling the human touch: A basic study for haptic technology. Tribology International, 2022, 166, 107352.	5.9	11
2	Design and Prototyping of an Underactuated Hand Exoskeleton With Fingers Coupled by a Gear-Based Differential. Frontiers in Robotics and AI, 2022, 9, 862340.	3.2	7
3	Design, Development, and Control of a Hand/Wrist Exoskeleton for Rehabilitation and Training. IEEE Transactions on Robotics, 2022, 38, 1472-1488.	10.3	21
4	A methodology to evaluate contact areas and indentations of human fingertips based on 3D techniques for haptic purposes. MethodsX, 2022, 9, 101781.	1.6	3
5	The Wavejoints: A Novel Methodology to Design Soft-Rigid Grippers Made by Monolithic 3D Printed Fingers with Adjustable Joint Stiffness. , 2022, , .		7
6	Compliant gripper design, prototyping, and modeling using screw theory formulation. International Journal of Robotics Research, 2021, 40, 55-71.	8.5	23
7	Design of Personalized Wearable Haptic Interfaces to Account for Fingertip Size and shape. IEEE Transactions on Haptics, 2021, 14, 266-272.	2.7	8
8	Accessible Educational Resources for Teaching and Learning Robotics. Robotics, 2021, 10, 38.	3.5	16
9	Human augmentation by wearable supernumerary robotic limbs: review and perspectives. Progress in Biomedical Engineering, 2021, 3, 042005.	4.9	31
10	Design of a Wearable Haptic Device for Hand Palm Cutaneous Feedback. Frontiers in Robotics and AI, 2021, 8, 706627.	3.2	3
11	Exploiting VR and AR Technologies in Education and Training to Inclusive Robotics. Studies in Computational Intelligence, 2021, , 115-126.	0.9	0
12	Modeling a Sensorized Soft Layer for Adding Compliance to the Environment in Robotic Manipulation. Mechanisms and Machine Science, 2021, , 370-377.	0.5	4
13	A Modular Wearable Finger Interface for Cutaneous and Kinesthetic Interaction: Control and Evaluation. IEEE Transactions on Industrial Electronics, 2020, 67, 706-716.	7.9	39
14	Hand closure model for planning top grasps with soft robotic hands. International Journal of Robotics Research, 2020, 39, 1706-1723.	8.5	19
15	Design, Development, and Control of a Tendon-actuated Exoskeleton for Wrist Rehabilitation and Training. , 2020, , .		10
16	Design of Soft Grippers with Modular Actuated Embedded Constraints. Robotics, 2020, 9, 105.	3.5	19
17	Cooperative Human-Robot Grasping With Extended Contact Patches. IEEE Robotics and Automation Letters, 2020, 5, 3121-3128.	5.1	2
18	A Numerical Procedure Based on Orowan's Theory for Predicting the Behavior of the Cold Rolling Mill Process in Full Film Lubrication. Lubricants, 2020, 8, 2.	2.9	3

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#	Article	IF	CITATIONS
19	Design and prototyping soft–rigid tendon-driven modular grippers using interpenetrating phase composites materials. International Journal of Robotics Research, 2020, 39, 1635-1646.	8.5	45
20	Grasping With the SoftPad, a Soft Sensorized Surface for Exploiting Environmental Constraints With Rigid Grippers. IEEE Robotics and Automation Letters, 2020, 5, 3884-3891.	5.1	6
21	Design and Prototype of Supernumerary Robotic Finger (SRF) Inspired by Fin Ray® Effect for Patients Suffering from Sensorimotor Hand Impairment. , 2019, , .		18
22	The Role of Closed-Loop Hand Control in Handshaking Interactions. IEEE Robotics and Automation Letters, 2019, 4, 878-885.	5.1	16
23	Exploiting Robot Hand Compliance and Environmental Constraints for Edge Grasps. Frontiers in Robotics and Al, 2019, 6, 135.	3.2	13
24	Evaluation of Grasp Stiffness inÂUnderactuated Compliant Hands Exploiting Environment Constraints. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2019, , 409-416.	0.6	3
25	Design of Multiple Wearable Robotic Extra Fingers for Human Hand Augmentation. Robotics, 2019, 8, 102.	3.5	20
26	The Closure Signature: A Functional Approach to Model Underactuated Compliant Robotic Hands. IEEE Robotics and Automation Letters, 2018, 3, 2206-2213.	5.1	21
27	The hBracelet: A Wearable Haptic Device for the Distributed Mechanotactile Stimulation of the Upper Limb. IEEE Robotics and Automation Letters, 2018, 3, 2198-2205.	5.1	42
28	A Three Revolute-Revolute-Spherical Wearable Fingertip Cutaneous Device for Stiffness Rendering. IEEE Transactions on Haptics, 2018, 11, 39-50.	2.7	56
29	Modeling and Prototyping of a Soft Prosthetic Hand Exploiting Joint Compliance and Modularity. , 2018, , .		13
30	Modeling and Prototyping of an Underactuated Gripper Exploiting Joint Compliance and Modularity. IEEE Robotics and Automation Letters, 2018, 3, 2854-2861.	5.1	43
31	Design of the Passive Joints of Underactuated Modular Soft Hands for Fingertip Trajectory Tracking. IEEE Robotics and Automation Letters, 2017, 2, 2008-2015.	5.1	42
32	A soft supernumerary robotic finger and mobile arm support for grasping compensation and hemiparetic upper limb rehabilitation. Robotics and Autonomous Systems, 2017, 93, 1-12.	5.1	35
33	Multicontact Bilateral Telemanipulation With Kinematic Asymmetries. IEEE/ASME Transactions on Mechatronics, 2017, 22, 445-456.	5.8	18
34	On Grasp Quality Measures: Grasp Robustness and Contact Force Distribution in Underactuated and Compliant Robotic Hands. IEEE Robotics and Automation Letters, 2017, 2, 329-336.	5.1	27
35	On the role of stiffness design for fingertip trajectories of underactuated modular soft hands. , 2017, , .		12
36	Modeling compliant grasps exploiting environmental constraints. , 2015, , .		9

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#	Article	IF	CITATIONS
37	Soft finger tactile rendering for wearable haptics. , 2015, , .		24
38	SynGrasp: A MATLAB Toolbox for Underactuated and Compliant Hands. IEEE Robotics and Automation Magazine, 2015, 22, 52-68.	2.0	69
39	Simulation of braking performance: The AnsaldoBreda EMU V250 application. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2015, 229, 160-172.	2.0	19
40	Design and development of a 3RRS wearable fingertip cutaneous device. , 2015, , .		62
41	The Sixth-Finger: A modular extra-finger to enhance human hand capabilities. , 2014, , .		66
42	Design and preliminary validation of a tool for the simulation of train braking performance. Journal of Modern Transportation, 2013, 21, 247-257.	2.5	46
43	On Motion and Force Controllability of Precision Grasps with Hands Actuated by Soft Synergies. IEEE Transactions on Robotics, 2013, 29, 1440-1456.	10.3	80
44	Mapping Synergies From Human to Robotic Hands With Dissimilar Kinematics: An Approach in the Object Domain. IEEE Transactions on Robotics, 2013, 29, 825-837.	10.3	115
45	Evaluation of grasp stiffness in underactuated compliant hands. , 2013, , .		17
46	Identification of a wheel–rail adhesion coefficient from experimental data during braking tests. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2013, 227, 128-139.	2.0	24
47	A numerical model of a HIL scaled roller rig for simulation of wheel–rail degraded adhesion condition. Vehicle System Dynamics, 2012, 50, 775-804.	3.7	12
48	On the manipulability ellipsoids of underactuated robotic hands with compliance. Robotics and Autonomous Systems, 2012, 60, 337-346.	5.1	75
49	Odometric estimation for automatic train protection and control systems. Vehicle System Dynamics, 2011, 49, 723-739.	3.7	29