

# Sergio Savino

## List of Publications by Year in descending order

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59  
papers

851  
citations

623734

14  
h-index

526287

27  
g-index

67  
all docs

67  
docs citations

67  
times ranked

611  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time EMC Based Pattern Recognition Control for Hand Prostheses: A Review on Existing Methods, Challenges and Future Implementation. <i>Sensors</i> , 2019, 19, 4596.	3.8	195
2	A Piezoresistive Sensor to Measure Muscle Contraction and Mechanomyography. <i>Sensors</i> , 2018, 18, 2553.	3.8	83
3	Robot trajectory planning by assigning positions and tangential velocities. <i>Robotics and Computer-Integrated Manufacturing</i> , 2013, 29, 139-156.	9.9	45
4	A method for the calibration of a 3-D laser scanner. <i>Robotics and Computer-Integrated Manufacturing</i> , 2011, 27, 479-484.	9.9	40
5	Method and equipment for inertia parameter identification. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 29-40.	8.0	38
6	Microsoft Kinect V2 vision system in a manufacturing application. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017, 48, 174-181.	9.9	35
7	Performance Comparison Between FEDERICA Hand and LARM Hand. <i>International Journal of Advanced Robotic Systems</i> , 2015, 12, 90.	2.1	33
8	A vision guided robotic system for flexible gluing process in the footwear industry. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020, 65, 101965.	9.9	30
9	A study of a robotic hand with tendon driven fingers. <i>Robotica</i> , 2015, 33, 1034-1048.	1.9	27
10	Design of a 3D-Printed Hand Exoskeleton Based on Force-Myography Control for Assistance and Rehabilitation. <i>Machines</i> , 2022, 10, 57.	2.2	27
11	An Underactuated Multi-finger Grasping Device. <i>International Journal of Advanced Robotic Systems</i> , 2014, 11, 20.	2.1	22
12	A new real-time shape acquisition with a laser scanner: first test results. <i>Robotics and Computer-Integrated Manufacturing</i> , 2010, 26, 543-550.	9.9	20
13	A gear rattle metric based on the wavelet multi-resolution analysis: Experimental investigation. <i>Mechanical Systems and Signal Processing</i> , 2015, 50-51, 161-173.	8.0	17
14	An underactuated mechanical hand: A first prototype. , 2014, , .		16
15	A stretchable, conductive rubber sensor to detect muscle contraction for prosthetic hand control. , 2017, , .		16
16	Mechanical behavior of the imperial carroballista. <i>Mechanism and Machine Theory</i> , 2014, 80, 142-150.	4.5	15
17	Evaluation of Grip Force and Energy Efficiency of the "Federica" Hand. <i>Machines</i> , 2021, 9, 25.	2.2	15
18	Analysis of gear rattle by means of a wavelet-based signal processing procedure. <i>Meccanica</i> , 2013, 48, 1399-1413.	2.0	14

#	ARTICLE	IF	CITATIONS
19	The "Federica" Hand. <i>Bioengineering</i> , 2021, 8, 128.	3.5	12
20	A New Mechanical Hand: Theoretical Studies and First Prototyping. <i>International Review of Mechanical Engineering</i> , 2014, 8, 835.	0.2	12
21	Mechanical model of a single tendon finger. , 2013, , .		11
22	Mechanical System Control by RGB-D Device. <i>Machines</i> , 2021, 9, 3.	2.2	10
23	Ancient road transport devices: Developments from the Bronze Age to the Roman Empire. <i>Frontiers of Mechanical Engineering</i> , 2016, 11, 12-25.	4.3	8
24	A mechanical hand for prosthetic applications: multibody model and contact simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 819-825.	1.8	8
25	Study on the Activation Speed and the Energy Consumption of "Federica" Prosthetic Hand. <i>IFMBE Proceedings</i> , 2020, , 594-603.	0.3	6
26	Performance of Greek "Roman Artillery. <i>Arms and Armour</i> , 2015, 12, 67-89.	0.3	5
27	Preservation of neurons in an AD 79 vitrified human brain. <i>PLoS ONE</i> , 2020, 15, e0240017.	2.5	5
28	Dynamical Model and Prototype Tests of a Self-Adaptive Mechanical Hand. <i>International Review on Modelling and Simulations</i> , 2016, 9, 97.	0.3	5
29	Study of an Underactuated Mechanical Finger Driven by Tendons. <i>International Journal of Automation Technology</i> , 2017, 11, 344-354.	1.0	5
30	Study on the Dispersion of Lubricant Film From a Cylindrical Gearwheels with Helical Teeth by Vibrational Analysis. <i>WSEAS Transactions on Applied and Theoretical Mechanics</i> , 2021, 16, 274-282.	1.1	5
31	Windmills: Ancestors of the wind power generation. <i>Frontiers of Mechanical Engineering</i> , 2017, 12, 389-396.	4.3	4
32	Analytical Study for the Capability Implementation of an Underactuated Three-Finger Hand. <i>Mechanisms and Machine Science</i> , 2019, , 161-168.	0.5	4
33	Multibody Model for the Design of a Rover for Agricultural Applications: A Preliminary Study. <i>Machines</i> , 2022, 10, 235.	2.2	4
34	An algorithm for robot motion detection by means of a stereoscopic vision system. <i>Advanced Robotics</i> , 2013, 27, 981-991.	1.8	3
35	A simplified model of a multi-jointed mechanical finger calibrated with experimental data by vision system. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2021, 235, 164-175.	0.8	3
36	3D Object Reconstruction Using a Robot Arm. , 2009, , 513-521.		3

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37	An Application of Vision Systems to the Path Planning of Industrial Robots. , 2007, , 586-594.		3
38	Video System in Robotic Applications. , 2008, , .		2
39	Analysis of suitable geometrical parameters for designing a tendon-driven under-actuated mechanical finger. Frontiers of Mechanical Engineering, 2016, 11, 184-194.	4.3	2
40	Multibody Model to Evaluate Quality Grasping of an Underactuated Mechanical Finger. Advances in Intelligent Systems and Computing, 2017, , 198-207.	0.6	2
41	Electrodeless FSR Linear Envelope Signal for Muscle Contraction Measurement. , 2019, , .		2
42	Nonlinear methodology for assessing vibrational dynamics of a single gear pair under different tribological conditions. Mechanisms and Machine Science, 2019, , 4127-4134.	0.5	2
43	A Smart Gluing Process by a Vision Guided Robotic System. Mechanisms and Machine Science, 2021, , 414-422.	0.5	2
44	Experimental investigation on elastic joint robot dynamics. , 0, , .		1
45	A Robotic System to Scan and Reproduce Object. Journal of Robotics, 2011, 2011, 1-11.	0.9	1
46	A model for the grasping analysis of an underactuated finger driven by unextensible tendon. MATEC Web of Conferences, 2016, 76, 04044.	0.2	1
47	An Analysis of the Hydraulic Saw of Hierapolis. Mechanisms and Machine Science, 2017, , 135-142.	0.5	1
48	A Vision Guided Robot for Gluing Operations. , 2021, , 15-28.		1
49	Motion Sensing Study on a Mobile Robot Through Simulation Model and Experimental Tests. WSEAS Transactions on Applied and Theoretical Mechanics, 2022, 17, 79-85.	1.1	1
50	Gear Rattle Analysis Based on Wavelet Signal Decomposition. , 2012, , .		0
51	Gripping Tests on an Underactuated Self-adapting Hand Prototype. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 199-206.	0.6	0
52	Under-Actuated Finger Driven by Un-extendible Tendons Grasping Tests by WM 2Dâ„¸. , 2016, , .		0
53	Simulation results of the grasping analysis of an underactuated finger. MATEC Web of Conferences, 2016, 76, 04045.	0.2	0
54	Elasto-Kinematic Characteristics of Car Suspensions with Magneto-Rheological Bushings. Mechanisms and Machine Science, 2018, , 414-423.	0.5	0

#	ARTICLE	IF	CITATIONS
55	Vision based techniques for the experimental characterization of a prosthetic finger model. Journal of Physics: Conference Series, 2020, 1589, 012013.	0.4	0
56	Dynamic Behaviour of an Underactuated Finger. Advances in Intelligent Systems and Computing, 2016, , 79-87.	0.6	0
57	Multibody Model of Under-Actuated Tendon Driven Finger to Study the Antagonist Tendon. Mechanisms and Machine Science, 2017, , 175-182.	0.5	0
58	Influence of the Tendon Design on the Behavior of an Under-Actuated Finger. Mechanisms and Machine Science, 2018, , 1033-1042.	0.5	0
59	Experimental Investigation on the Kinematics of an Underactuated Mechanical Finger through Vision-Based Technology. WSEAS Transactions on Environment and Development, 2022, 18, 322-332.	0.7	0