Hermes Giberti

List of Publications by Year
in descending order

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74	838	567281 15	552781 26
papers	citations	h-index	g-index

76	76	76	497
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of transmission mechanical characteristics on the choice of a motor-reducer. Mechatronics, 2010, 20, 604-610.	3.3	75
2	A Practical Approach to the Selection of the Motor-Reducer Unit in Electric Drive Systems. Mechanics Based Design of Structures and Machines, 2011, 39, 303-319.	4.7	61
3	Design of a 6-DoF Robotic Platform for Wind Tunnel Tests of Floating Wind Turbines. Energy Procedia, 2014, 53, 313-323.	1.8	55
4	The â€œpoint of isotropyâ€•and other properties of serial and parallel manipulators. Mechanism and Machine Theory, 2010, 45, 1407-1423.	4.5	49
5	Feasibility Study of an Extrusion-based Direct Metal Additive Manufacturing Technique. Procedia Manufacturing, 2016, 5, 916-927.	1.9	45
6	Scale model technology for floating offshore wind turbines. IET Renewable Power Generation, 2017, 11, 1120-1126.	3.1	42
7	A new isotropic and decoupled 6-DoF parallel manipulator. Mechanism and Machine Theory, 2012, 58, 64-81.	4.5	39
8	A path planning algorithm for industrial processes under velocity constraints with an application to additive manufacturing. Journal of Manufacturing Systems, 2017, 43, 160-167.	13.9	37
9	A test rig and numerical model for investigating truck mounted concrete pumps. Automation in Construction, 2011, 20, 1133-1142.	9.8	36
10	Cheope: A new reconfigurable redundant manipulator. Mechanism and Machine Theory, 2010, 45, 611-626.	4.5	31
11	5R 2dof parallel kinematic manipulator â€“ A multidisciplinary test case in mechatronics. Mechatronics, 2013, 23, 949-959.	3.3	31
12	An innovative machine for Fused Deposition Modeling of metals and advanced ceramics. MATEC Web of Conferences, 2016, 43, 03003.	0.2	26
13	Specific accelerating factor: One more tool in motor sizing projects. Mechatronics, 2014, 24, 898-905.	3.3	25
14	Mechatronic Design for an Extrusion-Based Additive Manufacturing Machine. Machines, 2017, 5, 29.	2.2	24
15	A novel hardware-in-the-loop device for floating offshore wind turbines and sailing boats. Mechanism and Machine Theory, 2015, 85, 82-105.	4.5	17
16	A Methodology for Flexible Implementation of Collaborative Robots in Smart Manufacturing Systems. Robotics, 2022, 11, 9.	3.5	17
17	A Feasibility Study of a Robotic Approach for the Gluing Process in the Footwear Industry. Robotics, 2021, 10, 6.	3.5	14
18	A genetic algorithm approach to the kinematic synthesis of a 6-DoF parallel manipulator. , 2014, , .		12

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19	A Planar Parallel Device for Neurorehabilitation. Robotics, 2020, 9, 104.	3.5	11
20	A model predictive protection system for actuators placed in hostile environments. , 2010, , .		10
21	Workspace Limiting Strategy for 6 DOF Force Controlled PKMs Manipulating High Inertia Objects. Robotics, 2018, 7, 10.	3.5	10
22	Error Analysis and Adaptive-Robust Control of a 6-DoF Parallel Robot with Ball-Screw Drive Actuators. Journal of Robotics, 2016, 2016, 1-15.	0.9	8
23	High Performance Motion-Planner Architecture for Hardware-In-the-Loop System Based on Position-Based-Admittance-Control. Robotics, 2018, 7, 8.	3.5	8
24	On Brushless Motors Continuous Duty Power Rate. , 2010, , .		7
25	A Novel in Field Method for Determining the Flow Rate Characteristics of Pneumatic Servo Axes. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	7
26	Optimization and comparison between two 6-DoF parallel kinematic machines for HIL simulations in wind tunnel. MATEC Web of Conferences, 2016, 45, 04012.	0.2	7
27	Dynamics Modeling and Accuracy Evaluation of a 6-DoF Hexaslide Robot. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 473-479.	0.5	7
28	Drive System Sizing of a 6-DOF Parallel Robotic Platform. , 2014, , .		6
29	Dimensional synthesis of a 5-DOF parallel kinematic manipulator for a 3d printer. , 2015, , .		6
30	Fully Mechatronical Design of an HIL System for Floating Devices. Robotics, 2018, 7, 39.	3.5	6
31	Additive Manufacturing as an Essential Element in the Teaching of Robotics. Robotics, 2019, 8, 73.	3.5	6
32	The Cyber-Physical Systems Within the industry 4.0 Framework. Mechanisms and Machine Science, 2019, , 415-423.	0.5	6
33	Brain computer interface for human-cobot interaction in industrial applications. , 2021, , .		6
34	Application of Realtime Robotics platform to execute unstructured industrial tasks involving industrial robots, cobots, and human operators. Procedia Computer Science, 2022, 200, 1359-1367.	2.0	6
35	Kinematic synthesis of a new 3D printing solution. MATEC Web of Conferences, 2016, 45, 04013.	0.2	5
36	A Moving 3D Laser Scanner for Automated Underbridge Inspection. Machines, 2017, 5, 32.	2.2	5

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37	Development of a Practical Tool for Designing Multi-Robot Systems in Pick-and-Place Applications. Robotics, 2019, 8, 71.	3.5	5
38	Conceptual design of a gait simulator for testing lower-limb active prostheses. , 2015, , .		4
39	In vitro test method for the development of intelligent lower limb prosthetic devices. Biocybernetics and Biomedical Engineering, 2017, 37, 11-23.	5.9	4
40	Design and Testing of a 3-DOF Robot for Studying the Human Response to Vibration. Machines, 2019, 7, 67.	2.2	4
41	Automation of Glue Deposition on Shoe Uppers by Means of Industrial Robots and Force Control. Mechanisms and Machine Science, 2021, , 344-352.	0.5	4
42	A Model-Based Approach to the Protection of the Steering Mechanism of High-Power Antennas Placed in a Nuclear Fusion Tokamak. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 55-63.	4.7	3
43	Attitude dynamic singularities in 3D free-flying manipulators for improved path planning. Meccanica, 2013, 48, 381-392.	2.0	3
44	Optimal synthesis of a cam mechanism for train pantograph. , 2013, , .		3
45	On a Two-DoF Parallel and Orthogonal Variable-Stiffness Actuator: An Innovative Kinematic Architecture. Robotics, 2019, 8, 39.	3.5	3
46	Trajectory Planning for Contact-Based Robotic Applications by Use of a 3D Stereo Depth Camera. , 2021, , .		3
47	The Generalized Jacobian Matrix and the Manipulators Kinetostatic Properties. , 2010, , .		2
48	The Specific Accelerating Factor to Compare Brushless Motors. , 2012, , .		2
49	Motor-Reducer Sizing Through a MATLAB-Based Graphical Technique. IEEE Transactions on Education, 2012, 55, 552-558.	2.4	2
50	Optimal design, simulation and experimental tests of an 5R PKM manipulator. , 2013, , .		2
51	Conceptual design and feasibility study of a novel upper-limb exoskeleton. , 2014, , .		2
52	Development of an Automatic Robotic Procedure for Machining of Skull Prosthesis. Robotics, 2020, 9, 108.	3.5	2
53	Kinematic Optimization of a 2DoF PRRRP Manipulator. Mechanisms and Machine Science, 2017, , 277-285.	0.5	2
54	An Unified Design Procedure for Flying Machining Operations. , 2012, , .		2

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55	Accuracy Enhancement of a Device for Automated Underbridge Inspections. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 59-66.	0.5	2
56	On the Mechatronic Design of a Low-Cost 6-DoFs Parallel Kinematic Manipulator. Mechanisms and Machine Science, 2018, , 46-54.	0.5	2
57	On cobot programming in industrial tasks: a test case. , 2022, , .		2
58	Overview on the truck mounted concrete boom pump: a dynamic numerical model for active control logic definition. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4232-4237.	0.4	1
59	Continuum Isotropy Loci of a 2-DoF Parallel Kinematic Manipulator. , 2012, , .		1
60	Improving Trajectory Tracking Performance of a 2 DOF Parallel Kinematic Manipulator With Flexible Links. , 2012, , .		1
61	Design and Control of an Active Humanoid Leg for Testing Lower-Limb Prostheses. , 2014, , .		1
62	Preliminary Study on Automated Concrete Bridge Inspection. , 2014, , .		1
63	A power recirculating test rig for ball screw endurance tests. MATEC Web of Conferences, 2016, 45, 03006.	0.2	1
64	A Belt-Driven 6-DoF Parallel Kinematic Machine. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 481-489.	0.5	1
65	A Simplified Approach to the Calibration of Extrusion Based AM Systems. Mechanisms and Machine Science, 2019, , 432-440.	0.5	1
66	Mechanical Design and Development of a Continuous Rotational Variable Stiffness Actuator. , 2021, , .		1
67	The â€œRobot Mechanicsâ€•Course Experience at Politecnico di Milano. Mechanisms and Machine Science, 2018, , 583-590.	0.5	1
68	Flexibility oriented design of a horizontal wrapping machine. Mechanical Sciences, 2015, 6, 109-118.	1.0	1
69	Design of an innovative magnetostrictive patch actuator. , 2015, , .		0
70	Development of an Active Force Plate for Testing Lower-Limb Prostheses. Mechanisms and Machine Science, 2017, , 61-70.	0.5	0
71	A Power Recirculating Test Rig for Ball Screws: A New Perspective for Endurance Tests. Machines, 2020, 8, 18.	2.2	0
72	Characterization of a 6 Degrees of Freedom Parallel Robot. , 2021, , .		0

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73	Vibration Suppression of a Flexible Parallel Kinematic Manipulator. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 281-295.	0.5	0
74	Automatic measurement of the hand dimensions using consumer 3D cameras. Acta IMEKO (2012), 2020, 9, 75.	0.7	0