

Hermes Giberti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1840379/publications.pdf>

Version: 2024-02-01

74
papers

838
citations

567281

15
h-index

552781

26
g-index

76
all docs

76
docs citations

76
times ranked

497
citing authors

#	ARTICLE	IF	CITATIONS
1	A Methodology for Flexible Implementation of Collaborative Robots in Smart Manufacturing Systems. Robotics, 2022, 11, 9.	3.5	17
2	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
3	On cobot programming in industrial tasks: a test case. , 2022, , .		2
4	Characterization of a 6 Degrees of Freedom Parallel Robot. , 2021, , .		0
5	Brain computer interface for human-cobot interaction in industrial applications. , 2021, , .		6
6	Mechanical Design and Development of a Continuous Rotational Variable Stiffness Actuator. , 2021, , .		1
7	Trajectory Planning for Contact-Based Robotic Applications by Use of a 3D Stereo Depth Camera. , 2021, , .		3
8	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
9	A Feasibility Study of a Robotic Approach for the Gluing Process in the Footwear Industry. Robotics, 2021, 10, 6.	3.5	14
10	A Planar Parallel Device for Neurorehabilitation. Robotics, 2020, 9, 104.	3.5	11
11	Development of an Automatic Robotic Procedure for Machining of Skull Prosthesis. Robotics, 2020, 9, 108.	3.5	2
12	A Power Recirculating Test Rig for Ball Screws: A New Perspective for Endurance Tests. Machines, 2020, 8, 18.	2.2	0
13	Automatic measurement of the hand dimensions using consumer 3D cameras. Acta IMEKO (2012), 2020, 9, 75.	0.7	0
14	Additive Manufacturing as an Essential Element in the Teaching of Robotics. Robotics, 2019, 8, 73.	3.5	6
15	Development of a Practical Tool for Designing Multi-Robot Systems in Pick-and-Place Applications. Robotics, 2019, 8, 71.	3.5	5
16	On a Two-DoF Parallel and Orthogonal Variable-Stiffness Actuator: An Innovative Kinematic Architecture. Robotics, 2019, 8, 39.	3.5	3
17	Design and Testing of a 3-DOF Robot for Studying the Human Response to Vibration. Machines, 2019, 7, 67.	2.2	4
18	The Cyber-Physical Systems Within the industry 4.0 Framework. Mechanisms and Machine Science, 2019, , 415-423.	0.5	6

#	ARTICLE	IF	CITATIONS
19	A Simplified Approach to the Calibration of Extrusion Based AM Systems. Mechanisms and Machine Science, 2019, , 432-440.	0.5	1
20	Fully Mechatronic Design of an HIL System for Floating Devices. Robotics, 2018, 7, 39.	3.5	6
21	Workspace Limiting Strategy for 6 DOF Force Controlled PKMs Manipulating High Inertia Objects. Robotics, 2018, 7, 10.	3.5	10
22	High Performance Motion-Planner Architecture for Hardware-In-the-Loop System Based on Position-Based-Admittance-Control. Robotics, 2018, 7, 8.	3.5	8
23	The "Robot Mechanics" Course Experience at Politecnico di Milano. Mechanisms and Machine Science, 2018, , 583-590.	0.5	1
24	On the Mechatronic Design of a Low-Cost 6-DoFs Parallel Kinematic Manipulator. Mechanisms and Machine Science, 2018, , 46-54.	0.5	2
25	In vitro test method for the development of intelligent lower limb prosthetic devices. Biocybernetics and Biomedical Engineering, 2017, 37, 11-23.	5.9	4
26	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
27	Development of an Active Force Plate for Testing Lower-Limb Prostheses. Mechanisms and Machine Science, 2017, , 61-70.	0.5	0
28	Scale model technology for floating offshore wind turbines. IET Renewable Power Generation, 2017, 11, 1120-1126.	3.1	42
29	Mechatronic Design for an Extrusion-Based Additive Manufacturing Machine. Machines, 2017, 5, 29.	2.2	24
30	A Moving 3D Laser Scanner for Automated Underbridge Inspection. Machines, 2017, 5, 32.	2.2	5
31	Kinematic Optimization of a 2DoF PRRRP Manipulator. Mechanisms and Machine Science, 2017, , 277-285.	0.5	2
32	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
33	A power recirculating test rig for ball screw endurance tests. MATEC Web of Conferences, 2016, 45, 03006.	0.2	1
34	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
35	An innovative machine for Fused Deposition Modeling of metals and advanced ceramics. MATEC Web of Conferences, 2016, 43, 03003.	0.2	26
36	Feasibility Study of an Extrusion-based Direct Metal Additive Manufacturing Technique. Procedia Manufacturing, 2016, 5, 916-927.	1.9	45

#	ARTICLE	IF	CITATIONS
37	Kinematic synthesis of a new 3D printing solution. MATEC Web of Conferences, 2016, 45, 04013.	0.2	5
38	A Belt-Driven 6-DoF Parallel Kinematic Machine. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 481-489.	0.5	1
39	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
40	Accuracy Enhancement of a Device for Automated Underbridge Inspections. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 59-66.	0.5	2
41	Dimensional synthesis of a 5-DOF parallel kinematic manipulator for a 3d printer. , 2015, , .		6
42	Design of an innovative magnetostrictive patch actuator. , 2015, , .		0
43	Conceptual design of a gait simulator for testing lower-limb active prostheses. , 2015, , .		4
44	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
45	Flexibility oriented design of a horizontal wrapping machine. Mechanical Sciences, 2015, 6, 109-118.	1.0	1
46	Drive System Sizing of a 6-DOF Parallel Robotic Platform. , 2014, , .		6
47	Conceptual design and feasibility study of a novel upper-limb exoskeleton. , 2014, , .		2
48	Design of a 6-DoF Robotic Platform for Wind Tunnel Tests of Floating Wind Turbines. Energy Procedia, 2014, 53, 313-323.	1.8	55
49	A genetic algorithm approach to the kinematic synthesis of a 6-DoF parallel manipulator. , 2014, , .		12
50	Specific accelerating factor: One more tool in motor sizing projects. Mechatronics, 2014, 24, 898-905.	3.3	25
51	Design and Control of an Active Humanoid Leg for Testing Lower-Limb Prostheses. , 2014, , .		1
52	Preliminary Study on Automated Concrete Bridge Inspection. , 2014, , .		1
53	Vibration Suppression of a Flexible Parallel Kinematic Manipulator. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 281-295.	0.5	0
54	Attitude dynamic singularities in 3D free-flying manipulators for improved path planning. Meccanica, 2013, 48, 381-392.	2.0	3

#	ARTICLE	IF	CITATIONS
55	5R 2dof parallel kinematic manipulator " A multidisciplinary test case in mechatronics. Mechatronics, 2013, 23, 949-959.	3.3	31
56	Optimal design, simulation and experimental tests of an 5R PKM manipulator. , 2013, , .		2
57	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
58	Optimal synthesis of a cam mechanism for train pantograph. , 2013, , .		3
59	The Specific Accelerating Factor to Compare Brushless Motors. , 2012, , .		2
60	Continuum Isotropy Loci of a 2-DoF Parallel Kinematic Manipulator. , 2012, , .		1
61	Motor-Reducer Sizing Through a MATLAB-Based Graphical Technique. IEEE Transactions on Education, 2012, 55, 552-558.	2.4	2
62	A new isotropic and decoupled 6-DoF parallel manipulator. Mechanism and Machine Theory, 2012, 58, 64-81.	4.5	39
63	Improving Trajectory Tracking Performance of a 2 DOF Parallel Kinematic Manipulator With Flexible Links. , 2012, , .		1
64	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
65	An Unified Design Procedure for Flying Machining Operations. , 2012, , .		2
66	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
67	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
68	A test rig and numerical model for investigating truck mounted concrete pumps. Automation in Construction, 2011, 20, 1133-1142.	9.8	36
69	Cheope: A new reconfigurable redundant manipulator. Mechanism and Machine Theory, 2010, 45, 611-626.	4.5	31
70	The "œpoint of isotropy" and other properties of serial and parallel manipulators. Mechanism and Machine Theory, 2010, 45, 1407-1423.	4.5	49
71	Effects of transmission mechanical characteristics on the choice of a motor-reducer. Mechatronics, 2010, 20, 604-610.	3.3	75
72	A model predictive protection system for actuators placed in hostile environments. , 2010, , .		10

#	ARTICLE	IF	CITATIONS
73	The Generalized Jacobian Matrix and the Manipulators Kinetostatic Properties. , 2010, , .		2
74	On Brushless Motors Continuous Duty Power Rate. , 2010, , .		7