

Miguel Ángel DÃ-az-RodrÃ-guez

List of Publications by Year in descending order

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341
citing authors

#	ARTICLE	IF	CITATIONS
1	Model-Based Control of a 3-DOF Parallel Robot Based on Identified Relevant Parameters. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1737-1744.	5.8	54
2	A methodology for dynamic parameters identification of 3-DOF parallel robots in terms of relevant parameters. Mechanism and Machine Theory, 2010, 45, 1337-1356.	4.5	52
3	Adaptive control of a 3-DOF parallel manipulator considering payload handling and relevant parameter models. Robotics and Computer-Integrated Manufacturing, 2014, 30, 468-477.	9.9	45
4	A 3-PRS parallel manipulator for ankle rehabilitation: towards a low-cost robotic rehabilitation. Robotica, 2017, 35, 1939-1957.	1.9	35
5	Design and Kinematic Analysis of a Novel 3UPS/RPU Parallel Kinematic Mechanism With 2T2R Motion for Knee Diagnosis and Rehabilitation Tasks. Journal of Mechanisms and Robotics, 2017, 9, .	2.2	24
6	Mechatronic Development and Dynamic Control of a 3-DOF Parallel Manipulator. Mechanics Based Design of Structures and Machines, 2012, 40, 434-452.	4.7	21
7	Mechatronic design, experimental setup, and control architecture design of a novel 4 DoF parallel manipulator. Mechanics Based Design of Structures and Machines, 2018, 46, 425-439.	4.7	21
8	Dynamic simulation of a parallel robot: Coulomb friction and stick-slip in robot joints. Robotica, 2010, 28, 35-45.	1.9	19
9	Hybrid force/position control for a 3-DOF 1T2R parallel robot: Implementation, simulations and experiments. Mechanics Based Design of Structures and Machines, 2016, 44, 16-31.	4.7	18
10	On the Experiment Design for Direct Dynamic Parameter Identification of Parallel Robots. Advanced Robotics, 2009, 23, 329-348.	1.8	16
11	Experimental analysis of Type II singularities and assembly change points in a 3UPS+RPU parallel robot. Mechanism and Machine Theory, 2021, 158, 104242.	4.5	16
12	Kinematic analysis and dimensional optimization of a 2R2T parallel manipulator. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	14
13	Synthesis of planar parallel manipulators including dexterity, force transmission and stiffness index. Mechanics Based Design of Structures and Machines, 2019, 47, 680-702.	4.7	13
14	Identifiability of the Dynamic Parameters of a Class of Parallel Robots in the Presence of Measurement Noise and Modeling Discrepancy#. Mechanics Based Design of Structures and Machines, 2008, 36, 478-498.	4.7	12
15	Mathematical modeling to design public health policies for Chikungunya epidemic using optimal control. Optimal Control Applications and Methods, 2020, 41, 1584-1603.	2.1	12
16	Controller-observer design and dynamic parameter identification for model-based control of an electromechanical lower-limb rehabilitation system. International Journal of Control, 2017, 90, 702-714.	1.9	11
17	Mathematical Modeling and Characterization of the Spread of Chikungunya in Colombia. Mathematical and Computational Applications, 2019, 24, 6.	1.3	9
18	Estrategia de optimización para la síntesis dimensional de un robot paralelo 5R para una aplicación de mesa de corte. Revista UIS Ingenierías, 2017, 16, 197-206.	0.2	9

#	ARTICLE	IF	CITATIONS
19	Design of a 3-UPS-RPU Parallel Robot for Knee Diagnosis and Rehabilitation. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 303-310.	0.6	8
20	Synthesis of the Inverse Kinematic Model of Non-Redundant Open-Chain Robotic Systems Using Groebner Basis Theory. Applied Sciences (Switzerland), 2020, 10, 2781.	2.5	8
21	Dynamic Parameter Identification of Subject-Specific Body Segment Parameters Using Robotics Formalism: Case Study Head Complex. Journal of Biomechanical Engineering, 2016, 138, 051009.	1.3	7
22	Optimization of the Controls against the Spread of Zika Virus in Populations. Computation, 2020, 8, 76.	2.0	7
23	Dynamic Parameter Identification for Parallel Manipulators. , 2008, , .		6
24	Reconfiguration of a parallel kinematic manipulator with 2T2R motions for avoiding singularities through minimizing actuator forces. Mechatronics, 2020, 69, 102382.	3.3	6
25	Solving the dynamic equations of a 3-PRS Parallel Manipulator for efficient model-based designs. Mechanical Sciences, 2016, 7, 9-17.	1.0	6
26	Nonstandard numerical schemes for modeling a 2-DOF serial robot with rotational spring-damper-actuators. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1211-1224.	2.1	5
27	End-effector positioning due to joint clearances: A comparison among three planar 2-DOF parallel manipulators. Journal of Mechanical Science and Technology, 2019, 33, 3497-3507.	1.5	4
28	Implementation of dynamic controllers using real-time middleware for a low-cost parallel robot. , 2014, , .		3
29	Technological development of a low-cost wrist rehabilitation robot: Kinematic and static performance analysis. Journal of Physics: Conference Series, 2018, 1126, 012069.	0.4	2
30	On the Conditioning of the Observation Matrix for Dynamic Parameters Identification of Parallel Robots. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2013, , 101-108.	0.6	2
31	Pedagogical strategies for enhancing machine design teaching in a mechanical technology programme. Revista UIS Ingenierías, 2019, 18, 15-25.	0.2	2
32	Mathematical Modeling of Physical Capital Diffusion Using a Spatial Solow Model: Application to Smuggling in Venezuela. Economies, 2022, 10, 164.	2.5	2
33	Comparison of trajectory parametrization methods with statistical analysis for dynamic parameter identification of serial robot. , 2017, , .		1
34	Experimental Setup of a Novel 4 DoF Parallel Manipulator. Mechanisms and Machine Science, 2018, , 389-400.	0.5	1
35	Development of a virtual learning environment for the subject numerical methods under Moodle. Journal of Physics: Conference Series, 2019, 1161, 012010.	0.4	1
36	Performance Index for Dimensional Synthesis of Robots for Specific Tasks. Robotics, 2022, 11, 51.	3.5	1

#	ARTICLE	IF	CITATIONS
37	Automatic selection of the Groebner Basis™ monomial order employed for the synthesis of the inverse kinematic model of non-redundant open-chain robotic systems. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 2458-2480.	4.7	0
38	Forward Dynamics of 3-DOF Parallel Robots: a Comparison Among Different Models. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2010, , 283-290.	0.6	0
39	A Multicriteria Approach for Optimal Trajectories in Dynamic Parameter Identification of Parallel Robots. , 2009, , 279-285.		0