Alessandro Cammarata

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4969958/publications.pdf

Version: 2024-02-01

42 papers	585 citations	623734 14 h-index	642732 23 g-index
44 all docs	44 docs citations	44 times ranked	336 citing authors

#	Article	IF	Citations
1	Interface reduction in flexible multibody systems using the Floating Frame of Reference Formulation. Journal of Sound and Vibration, 2022, 523, 116720.	3.9	12
2	Dynamic Model of a Conjugate-Surface Flexure Hinge Considering Impacts between Cylinders. Micromachines, 2022, 13, 957.	2.9	2
3	Global modes for the reduction of flexible multibody systems. Multibody System Dynamics, 2021, 53, 59-83.	2.7	6
4	A system-based reduction method for spatial deformable multibody systems using global flexible modes. Journal of Sound and Vibration, 2021, 504, 116118.	3.9	4
5	Dynamic assessment of the risk of airborne viral infection. Indoor Air, 2021, 31, 1759-1775.	4.3	12
6	Global flexible modes for the model reduction of planar mechanisms using the finite-element floating frame of reference formulation. Journal of Sound and Vibration, 2020, 489, 115668.	3.9	9
7	Full and reduced models for the elastodynamics of fully flexible parallel robots. Mechanism and Machine Theory, 2020, 151, 103895.	4.5	15
8	On the use of component mode synthesis methods for the model reduction of flexible multibody systems within the floating frame of reference formulation. Mechanical Systems and Signal Processing, 2020, 142, 106745.	8.0	30
9	Design of a Large Deployable Reflector Opening System. Machines, 2020, 8, 7.	2.2	4
10	Extension of the Iterative Improved Reduced System Technique to Flexible Mechanisms. Computational Methods in Applied Sciences (Springer), 2020, , 255-263.	0.3	0
11	An extended Craig-Bampton method for the modal analysis of mechanisms. Mechanisms and Machine Science, 2019, , 3329-3338.	0.5	0
12	Static condensation method for the reduced dynamic modeling of mechanisms and structures. Archive of Applied Mechanics, 2019, 89, 2033-2051.	2.2	11
13	Tie-System Calibration for the Experimental Setup of Large Deployable Reflectors. Machines, 2019, 7, 23.	2.2	3
14	An optimized form-finding method of an asymmetric large deployable reflector. Engineering Structures, 2019, 181, 27-34.	5.3	35
15	Alternative elliptic integral solution to the beam deflection equations for the design of compliant mechanisms. International Journal on Interactive Design and Manufacturing, 2019, 13, 499-505.	2.2	20
16	A Two-Step Algorithm for the Dynamic Reduction of Flexible Mechanisms. Mechanisms and Machine Science, 2019, , 25-32.	0.5	6
17	Redesign and multibody simulation of a motorcycle rear suspension with eccentric mechanism. International Journal on Interactive Design and Manufacturing, 2018, 12, 517-524.	2.2	17
18	Design and development of a towfish to monitor marine pollution. Euro-Mediterranean Journal for Environmental Integration, 2018, 3, 1.	1.3	17

#	Article	IF	Citations
19	A novel method to determine position and orientation errors in clearance-affected overconstrained mechanisms. Mechanism and Machine Theory, 2017, 118, 247-264.	4.5	50
20	An integrated approach to design an innovative motorcycle rear suspension with eccentric mechanism. Lecture Notes in Mechanical Engineering, 2017, , 609-619.	0.4	2
21	Closed-form solutions for the inverse kinematics of the Agile Eye with constraint errors on the revolute joint axes. , 2016, , .		10
22	Modified chain algorithm to study planar compliant mechanisms. International Journal on Interactive Design and Manufacturing, 2016, 10, 191-201.	2.2	14
23	Dynamic stiffness model of spherical parallel robots. Journal of Sound and Vibration, 2016, 384, 312-324.	3.9	28
24	Unified formulation for the stiffness analysis of spatial mechanisms. Mechanism and Machine Theory, 2016, 105, 272-284.	4.5	49
25	Parametric Study for the Steady-State Equilibrium of a Towfish. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 81, 231-240.	3.4	4
26	Dynamics of a high-performance motorcycle by an advanced multibody/control co-simulation. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2016, 230, 207-221.	0.8	12
27	Optimized design of a large-workspace 2-DOF parallel robot for solar tracking systems. Mechanism and Machine Theory, 2015, 83, 175-186.	4.5	64
28	Parametric study for the steady-state equilibrium of a Towfish. , 2014, , .		0
29	Elastodynamic optimization of a 3T1R parallel manipulator. Mechanism and Machine Theory, 2014, 73, 184-196.	4.5	36
30	Design of an Underwater Towfish Using Design by Rule and Design by Analysis. , 2014, , .		3
31	An Algorithm to Study the Elastodynamics of Parallel Kinematic Machines With Lower Kinematic Pairs. Journal of Mechanisms and Robotics, 2013, 5, .	2.2	28
32	Coupled fluid-dynamical and structural analysis of a mono-axial mems accelerometer. International Journal of Multiphysics, 2013, 7, 115-124.	0.1	1
33	Symbolic Dynamic Formulation of a Rolling Robot with Spherical Wheels Moving on Smooth Surfaces. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 889-894.	0.4	2
34	Tripod stiffening using clamping plates with no increase of moving mass. Meccanica, 2012, 47, 355-367.	2.0	1
35	Load movement control system for rollover risk reduction of tanker trucks. International Journal of Heavy Vehicle Systems, 2011, 18, 303.	0.2	0
36	Kinetostatic and Inertial Conditioning of the McGill SchÃ¶nflies-Motion Generator. Advances in Mechanical Engineering, 2010, 2, 186203.	1.6	18

#	Article	IF	Citations
37	Analysis and Design of a Spherical Micromechanism With Flexure Hinges. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	24
38	The dynamics of parallel SchÃ¶nflies motion generators: The case of a two-limb system. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2009, 223, 29-52.	1.0	9
39	Kinematics and Dynamics of a 3-CRU Spherical Parallel Robot. , 2007, , .		9
40	Dynamics of a Two-DOF Parallel Pointing Mechanism. , 2005, , 1051.		0
41	On the Dynamic Isotropy of Mechanisms With Two Degrees of Freedom. , 2005, , 1059.		0
42	On the Stiffness Analysis and Elastodynamics of Parallel Kinematic Machines. , 0, , .		6