Domenico Guida

List of Publications by Year
in descending order

39 papers	869 citations	331670 21 h-index	477307 29 g-index
40 all docs	40 docs citations	40 times ranked	444 citing authors

#	Article	IF	Citations
1	IoT System for Structural Monitoring. Lecture Notes in Networks and Systems, 2022, , 599-606.	0.7	12
2	Dynamic Analysis and Attitude Control of a Minisatellite. Lecture Notes in Networks and Systems, 2022, , 244-251.	0.7	2
3	A Multibody System Approach for the Systematic Development of a Closed-Chain Kinematic Model for Two-Wheeled Vehicles. Machines, 2021, 9, 245.	2.2	22
4	TLD Design and Development for Vibration Mitigation in Structures. Lecture Notes in Networks and Systems, 2020, , 59-72.	0.7	26
5	On the Use of the Udwadia-Kalaba Equations for the Nonlinear Control of a Generalized Van Der Pol-Duffing Oscillator. Lecture Notes in Networks and Systems, 2020, , 82-95.	0.7	3
6	A Parametric Study of a Deep Reinforcement Learning Control System Applied to the Swing-Up Problem of the Cart-Pole. Applied Sciences (Switzerland), 2020, 10, 9013.	2.5	32
7	Stability analysis of rigid multibody mechanical systems with holonomic and nonholonomic constraints. Archive of Applied Mechanics, 2020, 90, 1961-2005.	2.2	24
8	A Model Validating Technique for the Kinematic Study of Two-Wheeled Vehicles. Lecture Notes in Mechanical Engineering, 2020, , 549-558.	0.4	2
9	Experimental Investigation on Structural Vibrations by a New Shaking Table. Lecture Notes in Mechanical Engineering, 2020, , 819-831.	0.4	24
10	A Reinforcement Learning Controller for the Swing-Up of the Furuta Pendulum. Lecture Notes in Networks and Systems, 2020, , 31-38.	0.7	1
11	An Inverse Dynamics Approach Based on the Fundamental Equations of Constrained Motion and on the Theory of Optimal Control. Lecture Notes in Mechanical Engineering, 2020, , 336-352.	0.4	0
12	Object Recognition Using Neural Networks for Robotics Precision Application. Lecture Notes in Mechanical Engineering, 2020, , 108-117.	0.4	0
13	A General Method for Performing an Integrated CAD-MBD-FEM Analysis. Lecture Notes in Mechanical Engineering, 2020, , 264-272.	0.4	0
14	Redesign of an Aircraft Cargo Door by Using a CAD-MBD-FEM Integration Method. Lecture Notes in Mechanical Engineering, 2020, , 53-62.	0.4	0
15	Unmanned Ground Vehicle Modelling in Gazebo/ROS-Based Environments. Machines, 2019, 7, 42.	2.2	69
16	Multibody modeling and nonlinear control of the pantograph/catenary system. Archive of Applied Mechanics, 2019, 89, 1589-1626.	2.2	27
17	Analysis of the Sustainable Use of Geothermal Waters and Future Development Possibilitiesâ€"A Case Study from the Opole Region, Poland. Sustainability, 2019, 11, 6730.	3.2	11
18	On the dynamics and control of underactuated nonholonomic mechanical systems and applications to mobile robots. Archive of Applied Mechanics, 2019, 89, 669-698.	2.2	25

#	Article	IF	Citations
19	Forward and Inverse Dynamics of a Unicycle-Like Mobile Robot. Machines, 2019, 7, 5.	2.2	19
20	A time-domain system identification numerical procedure for obtaining linear dynamical models of multibody mechanical systems. Archive of Applied Mechanics, 2018, 88, 1325-1347.	2.2	27
21	On the Lagrange multipliers of the intrinsic constraint equations of rigid multibody mechanical systems. Archive of Applied Mechanics, 2018, 88, 419-451.	2.2	34
22	System Identification Algorithm for Computing the Modal Parameters of Linear Mechanical Systems. Machines, 2018, 6, 12.	2.2	31
23	Use of the Adjoint Method for Controlling the Mechanical Vibrations of Nonlinear Systems. Machines, 2018, 6, 19.	2.2	30
24	Design of Delivery Valve for Hydraulic Pumps. Machines, 2018, 6, 44.	2.2	21
25	A comparative study of the principal methods for the analytical formulation and the numerical solution of the equations of motion of rigid multibody systems. Archive of Applied Mechanics, 2018, 88, 2153-2177.	2.2	28
26	Modal Coupling in Presence of Dry Friction. Machines, 2018, 6, 8.	2.2	52
27	Obstacle Avoidance System for Unmanned Ground Vehicles by Using Ultrasonic Sensors. Machines, 2018, 6, 18.	2.2	83
28	On the Computational Methods for Solving the Differential-Algebraic Equations of Motion of Multibody Systems. Machines, 2018, 6, 20.	2.2	21
29	Polyalkylene Glycol Based Lubricants and Tribological Behaviour: Role of Ionic Liquids and Graphene Oxide as Additives. Journal of Nanoscience and Nanotechnology, 2018, 18, 913-924.	0.9	7
30	Adjoint-Based Optimization Procedure for Active Vibration Control of Nonlinear Mechanical Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	36
31	Control of nonlinear vibrations using the adjoint method. Meccanica, 2017, 52, 2503-2526.	2.0	31
32	On the use of two-dimensional Euler parameters for the dynamic simulation of planar rigid multibody systems. Archive of Applied Mechanics, 2017, 87, 1647-1665.	2.2	29
33	Multibody Model of a UAV in Presence of Wind Fields. , 2017, , .		18
34	Experimental Identification and Control of a Frame Structure Using an Actively Controlled Inertial-Based Vibration Absorber. , 2017, , .		3
35	DESIGN OPTIMIZATION OF THE PLOUGH WORKING SURFACE BY COMPUTERIZED MATHEMATICAL MODEL. Emirates Journal of Food and Agriculture, 2017, 29, 36.	1.0	31
36	DRY FRICTION INFLUENCE ON STRUCTURE DYNAMICS. , 2015, , .		11

#	ARTICLE	IF	CITATIONS
37	Forward and inverse dynamics of nonholonomic mechanical systems. Meccanica, 2014, 49, 1547-1559.	2.0	29
38	Influence of the variation between static and kinetic friction on stick-slip instability. Wear, 1993, 161, 121-126.	3.1	31
39	Stick-slip instability analysis. Meccanica, 1992, 27, 111-118.	2.0	16