Carmine Maria Pappalardo

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8982824/publications.pdf

Version: 2024-02-01

28 papers	617 citations	394286 19 h-index	642610 23 g-index
28 all docs	28 docs citations	28 times ranked	316 citing authors

#	Article	IF	Citations
1	A natural absolute coordinate formulation for the kinematic and dynamic analysis of rigid multibody systems. Nonlinear Dynamics, 2015, 81, 1841-1869.	2.7	71
2	Use of independent volume parameters in the development of new large displacement ANCF triangular plate/shell elements. Nonlinear Dynamics, 2018, 91, 2171-2202.	2.7	40
3	On the Lagrange multipliers of the intrinsic constraint equations of rigid multibody mechanical systems. Archive of Applied Mechanics, 2018, 88, 419-451.	1.2	34
4	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.	1.3	32
5	Control of nonlinear vibrations using the adjoint method. Meccanica, 2017, 52, 2503-2526.	1.2	31
6	Development of ANCF tetrahedral finite elements for the nonlinear dynamics of flexible structures. Nonlinear Dynamics, 2017, 89, 2905-2932.	2.7	31
7	System Identification Algorithm for Computing the Modal Parameters of Linear Mechanical Systems. Machines, 2018, 6, 12.	1.2	31
8	Use of the Adjoint Method for Controlling the Mechanical Vibrations of Nonlinear Systems. Machines, 2018, 6, 19.	1.2	30
9	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.	4.4	30
10	Forward and inverse dynamics of nonholonomic mechanical systems. Meccanica, 2014, 49, 1547-1559.	1.2	29
11	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.	1.2	29
12	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.	1.2	28
13	A time-domain system identification numerical procedure for obtaining linear dynamical models of multibody mechanical systems. Archive of Applied Mechanics, 2018, 88, 1325-1347.	1.2	27
14	Multibody modeling and nonlinear control of the pantograph/catenary system. Archive of Applied Mechanics, 2019, 89, 1589-1626.	1.2	27
15	On the dynamics and control of underactuated nonholonomic mechanical systems and applications to mobile robots. Archive of Applied Mechanics, 2019, 89, 669-698.	1.2	25
16	Stability analysis of rigid multibody mechanical systems with holonomic and nonholonomic constraints. Archive of Applied Mechanics, 2020, 90, 1961-2005.	1.2	24
17	A Multibody System Approach for the Systematic Development of a Closed-Chain Kinematic Model for Two-Wheeled Vehicles. Machines, 2021, 9, 245.	1.2	22
18	On the Computational Methods for Solving the Differential-Algebraic Equations of Motion of Multibody Systems. Machines, 2018, 6, 20.	1.2	21

#	Article	IF	Citations
19	Forward and Inverse Dynamics of a Unicycle-Like Mobile Robot. Machines, 2019, 7, 5.	1.2	19
20	Dynamic Analysis of Planar Rigid Multibody Systems modeled using Natural Absolute Coordinates. Applied and Computational Mechanics, 2018, 12, .	0.1	19
21	Topology Optimization Procedure of Aircraft Mechanical Components Based on Computer-Aided Design, Multibody Dynamics, and Finite Element Analysis. Lecture Notes in Mechanical Engineering, 2020, , 159-168.	0.3	11
22	Experimental Identification and Control of a Frame Structure Using an Actively Controlled Inertial-Based Vibration Absorber. , 2017, , .		3
23	A Model Validating Technique for the Kinematic Study of Two-Wheeled Vehicles. Lecture Notes in Mechanical Engineering, 2020, , 549-558.	0.3	2
24	A Reinforcement Learning Controller for the Swing-Up of the Furuta Pendulum. Lecture Notes in Networks and Systems, 2020, , 31-38.	0.5	1
25	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.	0.3	0
26	Experimental Identification of a Car Dynamic Model Using the Numerical Algorithms for Subspace State-Space System Identification. Lecture Notes in Mechanical Engineering, 2020, , 14-23.	0.3	0
27	A General Method for Performing an Integrated CAD-MBD-FEM Analysis. Lecture Notes in Mechanical Engineering, 2020, , 264-272.	0.3	0
28	Redesign of an Aircraft Cargo Door by Using a CAD-MBD-FEM Integration Method. Lecture Notes in Mechanical Engineering, 2020, , 53-62.	0.3	0