

# Carmine Maria Pappalardo

## List of Publications by Year in descending order

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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 Multibody System Approach for the Systematic Development of a Closed-Chain Kinematic Model for Two-Wheeled Vehicles. <i>Machines</i> , 2021, 9, 245.	1.2	22
2	A Parametric Study of a Deep Reinforcement Learning Control System Applied to the Swing-Up Problem of the Cart-Pole. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 9013.	1.3	32
3	Stability analysis of rigid multibody mechanical systems with holonomic and nonholonomic constraints. <i>Archive of Applied Mechanics</i> , 2020, 90, 1961-2005.	1.2	24
4	On the use of component mode synthesis methods for the model reduction of flexible multibody systems within the floating frame of reference formulation. <i>Mechanical Systems and Signal Processing</i> , 2020, 142, 106745.	4.4	30
5	A Model Validating Technique for the Kinematic Study of Two-Wheeled Vehicles. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 549-558.	0.3	2
6	Topology Optimization Procedure of Aircraft Mechanical Components Based on Computer-Aided Design, Multibody Dynamics, and Finite Element Analysis. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 159-168.	0.3	11
7	A Reinforcement Learning Controller for the Swing-Up of the Furuta Pendulum. <i>Lecture Notes in Networks and Systems</i> , 2020, , 31-38.	0.5	1
8	An Inverse Dynamics Approach Based on the Fundamental Equations of Constrained Motion and on the Theory of Optimal Control. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 336-352.	0.3	0
9	Experimental Identification of a Car Dynamic Model Using the Numerical Algorithms for Subspace State-Space System Identification. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 14-23.	0.3	0
10	A General Method for Performing an Integrated CAD-MBD-FEM Analysis. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 264-272.	0.3	0
11	Redesign of an Aircraft Cargo Door by Using a CAD-MBD-FEM Integration Method. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 53-62.	0.3	0
12	Multibody modeling and nonlinear control of the pantograph/catenary system. <i>Archive of Applied Mechanics</i> , 2019, 89, 1589-1626.	1.2	27
13	On the dynamics and control of underactuated nonholonomic mechanical systems and applications to mobile robots. <i>Archive of Applied Mechanics</i> , 2019, 89, 669-698.	1.2	25
14	Forward and Inverse Dynamics of a Unicycle-Like Mobile Robot. <i>Machines</i> , 2019, 7, 5.	1.2	19
15	A time-domain system identification numerical procedure for obtaining linear dynamical models of multibody mechanical systems. <i>Archive of Applied Mechanics</i> , 2018, 88, 1325-1347.	1.2	27
16	Use of independent volume parameters in the development of new large displacement ANCF triangular plate/shell elements. <i>Nonlinear Dynamics</i> , 2018, 91, 2171-2202.	2.7	40
17	On the Lagrange multipliers of the intrinsic constraint equations of rigid multibody mechanical systems. <i>Archive of Applied Mechanics</i> , 2018, 88, 419-451.	1.2	34
18	System Identification Algorithm for Computing the Modal Parameters of Linear Mechanical Systems. <i>Machines</i> , 2018, 6, 12.	1.2	31

#	ARTICLE	IF	CITATIONS
19	Use of the Adjoint Method for Controlling the Mechanical Vibrations of Nonlinear Systems. <i>Machines</i> , 2018, 6, 19.	1.2	30
20	A comparative study of the principal methods for the analytical formulation and the numerical solution of the equations of motion of rigid multibody systems. <i>Archive of Applied Mechanics</i> , 2018, 88, 2153-2177.	1.2	28
21	On the Computational Methods for Solving the Differential-Algebraic Equations of Motion of Multibody Systems. <i>Machines</i> , 2018, 6, 20.	1.2	21
22	Dynamic Analysis of Planar Rigid Multibody Systems modeled using Natural Absolute Coordinates. <i>Applied and Computational Mechanics</i> , 2018, 12, .	0.1	19
23	Control of nonlinear vibrations using the adjoint method. <i>Meccanica</i> , 2017, 52, 2503-2526.	1.2	31
24	Development of ANCF tetrahedral finite elements for the nonlinear dynamics of flexible structures. <i>Nonlinear Dynamics</i> , 2017, 89, 2905-2932.	2.7	31
25	On the use of two-dimensional Euler parameters for the dynamic simulation of planar rigid multibody systems. <i>Archive of Applied Mechanics</i> , 2017, 87, 1647-1665.	1.2	29
26	Experimental Identification and Control of a Frame Structure Using an Actively Controlled Inertial-Based Vibration Absorber. , 2017, , .		3
27	A natural absolute coordinate formulation for the kinematic and dynamic analysis of rigid multibody systems. <i>Nonlinear Dynamics</i> , 2015, 81, 1841-1869.	2.7	71
28	Forward and inverse dynamics of nonholonomic mechanical systems. <i>Meccanica</i> , 2014, 49, 1547-1559.	1.2	29