Juan Carlos Garcia Orden

List of Publications by Year
in descending order

23 papers	305 citations	840776 11 h-index	888059 17 g-index
24 all docs	24 docs citations	24 times ranked	189 citing authors

#	Article	IF	Citations
1	Analysis of Joint Clearances in Multibody Systems. Multibody System Dynamics, 2005, 13, 401-420.	2.7	62
2	Dynamic analysis of rigid and deformable multibody systems with penalty methods and energy–momentum schemes. Computer Methods in Applied Mechanics and Engineering, 2000, 188, 789-804.	6.6	40
3	Conserving Properties in Constrained Dynamics of Flexible Multibody Systems. Multibody System Dynamics, 2000, 4, 225-244.	2.7	31
4	Energy considerations for the stabilization of constrained mechanical systems with velocity projection. Nonlinear Dynamics, 2010, 60, 49-62.	5.2	20
5	Energy-Entropy-Momentum integration of discrete thermo-visco-elastic dynamics. European Journal of Mechanics, A/Solids, 2012, 32, 76-87.	3.7	18
6	Title is missing!. Multibody System Dynamics, 2002, 7, 3-29.	2.7	17
7	Energy–entropy–momentum integration schemes for general discrete non‐smooth dissipative problems in thermomechanics. International Journal for Numerical Methods in Engineering, 2017, 112, 776-802.	2.8	17
8	Controllable velocity projection for constraint stabilization in multibody dynamics. Nonlinear Dynamics, 2012, 68, 245-257.	5.2	14
9	A Conservative Augmented Lagrangian Algorithm for the Dynamics of Constrained Mechanical Systems. Mechanics Based Design of Structures and Machines, 2006, 34, 449-468.	4.7	13
10	A temperature-based thermodynamically consistent integration scheme for discrete thermo-elastodynamics. Communications in Nonlinear Science and Numerical Simulation, 2016, 32, 63-80.	3.3	12
11	Energy-consistent time integration for nonlinear viscoelasticity. Computational Mechanics, 2014, 54, 473-488.	4.0	11
12	Energy-consistent simulation of frictional contact in rigid multibody systems using implicit surfaces and penalty method. Multibody System Dynamics, 2017, 41, 275-295.	2.7	11
13	On the Stabilizing Properties of Energy-Momentum Integrators and Coordinate Projections for Constrained Mechanical Systems. , 2007, , 49-67.		11
14	On Energy–Entropy–Momentum integration methods for discrete thermo-visco-elastodynamics. Computers and Structures, 2017, 181, 3-20.	4.4	8
15	Galerkin meshfree methods applied to the nonlinear dynamics of flexible multibody systems. Multibody System Dynamics, 2011, 25, 203-224.	2.7	7
16	Energy and symmetry-preserving formulation of nonlinear constraints and potential forces in multibody dynamics. Nonlinear Dynamics, 2019, 95, 823-837.	5.2	7
17	Application of Galerkin meshfree methods to nonlinear thermo-mechanical simulation of solids under extremely high pulsed loading. Fusion Engineering and Design, 2013, 88, 2744-2747.	1.9	2
18	A conserving formulation of a simple shear- and torsion-free beam for multibody applications. Multibody System Dynamics, 2021, 51, 21-43.	2.7	2

#	ARTICLE	IF	CITATIONS
19	Energy Considerations for the Stabilization of Constrained Mechanical Systems with Velocity Projection. Computational Methods in Applied Sciences (Springer), 2011, , 153-171.	0.3	2
20	A conservative augmented Lagrangian algorithm for the dynamics of constrained mechanical systems. , 2006, , 619-619.		0
21	An energy-consistent integration scheme for flexible multibody systems with dissipation. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2016, 230, 268-280.	0.8	0
22	A Simple Shear and Torsion-Free Beam Model for Multibody Dynamics. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	1.2	0
23	Application Criteria for Conserving Integrators and Projection Methods in Multibody Dynamics. , 2007, , .		0