

Karin Nachbagauer

List of Publications by Year in descending order

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23
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202
citing authors

#	ARTICLE	IF	CITATIONS
1	The Adjoint Method for Time-Optimal Control Problems. Journal of Computational and Nonlinear Dynamics, 2021, 16, .	0.7	9
2	Refined Zigzag Theory: an appropriate tool for the analysis of CLT-plates and other shear-elastic timber structures. European Journal of Wood and Wood Products, 2020, 78, 1125-1135.	1.3	2
3	A modified HHT method for the numerical simulation of rigid body rotations with Euler parameters. Multibody System Dynamics, 2019, 46, 181-202.	1.7	8
4	A frequency domain approach for parameter identification in multibody dynamics. Multibody System Dynamics, 2018, 43, 175-191.	1.7	5
5	The discrete adjoint method for parameter identification in multibody system dynamics. Multibody System Dynamics, 2018, 42, 397-410.	1.7	15
6	The Discrete Adjoint Gradient Computation for Optimization Problems in Multibody Dynamics. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	18
7	Optimal input design for multibody systems by using an extended adjoint approach. Multibody System Dynamics, 2017, 40, 43-54.	1.7	13
8	The Absolute Nodal Coordinate Formulation. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 159-200.	0.3	4
9	The Use of the Adjoint Method for Solving Typical Optimization Problems in Multibody Dynamics. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	0.7	46
10	On the rotational equations of motion in rigid body dynamics when using Euler parameters. Nonlinear Dynamics, 2015, 81, 343-352.	2.7	23
11	Enhancement of the Adjoint Method by Error Control of Accelerations for Parameter Identification in Multibody Dynamics. Universal Journal of Control and Automation, 2015, 3, 47-52.	0.5	6
12	An Efficient Treatment of Parameter Identification in the Context of Multibody System Dynamics Using the Adjoint Method. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 1-8.	0.3	0
13	Identification of System Properties in a Square Frame Undergoing Large Deformations: Numerical and Experimental Investigations. International Journal of Structural Stability and Dynamics, 2014, 14, 1450017.	1.5	1
14	Structural and Continuum Mechanics Approaches for a 3D Shear Deformable ANCF Beam Finite Element: Application to Buckling and Nonlinear Dynamic Examples. Journal of Computational and Nonlinear Dynamics, 2014, 9, .	0.7	23
15	State of the Art of ANCF Elements Regarding Geometric Description, Interpolation Strategies, Definition of Elastic Forces, Validation and the Locking Phenomenon in Comparison with Proposed Beam Finite Elements. Archives of Computational Methods in Engineering, 2014, 21, 293-319.	6.0	71
16	A Detailed Derivation of the Velocity-Dependent Inertia Forces in the Floating Frame of Reference Formulation. Journal of Computational and Nonlinear Dynamics, 2014, 9, .	0.7	15
17	A 3D Shear Deformable Finite Element Based on the Absolute Nodal Coordinate Formulation. Computational Methods in Applied Sciences (Springer), 2013, , 77-96.	0.1	20
18	HOTINT: A Script Language Based Framework for the Simulation of Multibody Dynamics Systems. , 2013, , .		20

#	ARTICLE	IF	CITATIONS
19	Structural and Continuum Mechanics Approaches for a 3D Shear Deformable ANCF Beam Finite Element: Application to Static and Linearized Dynamic Examples. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	0.7	39
20	On the Numerical Identification of System Properties in a Square Frame. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 91-92.	0.2	0
21	A new locking-free formulation for planar, shear deformable, linear and quadratic beam finite elements based on the absolute nodal coordinate formulation. Multibody System Dynamics, 2011, 26, 245-263.	1.7	94
22	A spatial shear deformable beam finite element based on the absolute nodal coordinate formulation. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 59-60.	0.2	2
23	A Spatial Thin Beam Finite Element Based on the Absolute Nodal Coordinate Formulation Without Singularities. , 2011, , .		11