Wolfgang Steiner

List of Publications by Year
in descending order

26	213	1162889 8	1125617 13
papers	citations	h-index	g-index

26	26	26	120
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Time-Optimal Control of Dynamic Systems Regarding Final Constraints. Journal of Computational and Nonlinear Dynamics, 2021, 16, .	0.7	6
2	The Adjoint Method for Time-Optimal Control Problems. Journal of Computational and Nonlinear Dynamics, 2021, 16, .	0.7	9
3	On the impact of the jerk on structural dynamics. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	2
4	Inverse Dynamics of an Industrial Robot Using Motion Constraints. , 2019, , .		5
5	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
6	A frequency domain approach for parameter identification in multibody dynamics. Multibody System Dynamics, 2018, 43, 175-191.	1.7	5
7	The discrete adjoint method for parameter identification in multibody system dynamics. Multibody System Dynamics, 2018, 42, 397-410.	1.7	15
8	Identification of a nonlinear spring and damper characteristics of a motorcycle suspension using test ride data. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800005.	0.2	0
9	The Discrete Adjoint Gradient Computation for Optimization Problems in Multibody Dynamics. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	18
10	A generalized constraint reduction method for reduced order MBS models. Multibody System Dynamics, 2017, 41, 259-274.	1.7	10
11	Optimal input design for multibody systems by using an extended adjoint approach. Multibody System Dynamics, 2017, 40, 43-54.	1.7	13
12	Non-unique Equilibria of a Statically Indeterminate System with Coulomb Friction. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 353-354.	0.2	0
13	Reduction of Physical and Constraint Degrees-of-Freedom of Redundant Formulated Multibody Systems. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	0.7	5
14	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
15	On the rotational equations of motion in rigid body dynamics when using Euler parameters. Nonlinear Dynamics, 2015, 81, 343-352.	2.7	23
16	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
17	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
18	The use of Castiglianoâ€™s theorem in Coulomb friction problems. Acta Mechanica, 2014, 225, 2471-2483.	1.1	10

#	Article	IF	Citations
19	Evaluation of the adjoint sensitivity analysis for the identification of multibody system parameters. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 69-70.	0.2	0
20	The Optimal Control Approach to Dynamical Inverse Problems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	12
21	Tethered satellite systems: A challenge for mechanics and applied mathematics. GAMM Mitteilungen, 2009, 32, 105-120.	2.7	3
22	Evaluation of Different Methods to Compute Excitation Signals Based on Measured Targets in Agricultural Machines. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 121-122.	0.2	1
23	Stability Analysis of an Orbiting Plate with Finite Elements. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10923-10924.	0.2	0
24	A finite element based stability test for equilibria of flexible structures in circular orbits. International Journal of Non-Linear Mechanics, 2008, 43, 650-659.	1.4	1
25	Stability analysis of relative equilibria of mechanical systems with cyclic coordinates: a direct approach. Archive of Applied Mechanics, 2006, 75, 355-363.	1.2	2
26	Optimal Control of Retrieval of a Tethered Subsatellite. , 2005, , 441-450.		13