PaweÅ, Malczyk

List of Publications by Year
in descending order

18	167	1478280 6	1199470 12
papers	citations	h-index	g-index

19	19	19	86
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A divide and conquer algorithm for constrained multibody system dynamics based on augmented Lagrangian method with projections-based error correction. Nonlinear Dynamics, 2012, 70, 871-889.	2.7	36
2	A parallel Hamiltonian formulation for forward dynamics of closed-loop multibody systems. Multibody System Dynamics, 2017, 39, 51-77.	1.7	25
3	A Parallel Recursive Hamiltonian Algorithm for Forward Dynamics of Serial Kinematic Chains. IEEE Transactions on Robotics, 2017, 33, 647-660.	7.3	20
4	Index-3 divide-and-conquer algorithm for efficient multibody system dynamics simulations: theory and parallel implementation. Nonlinear Dynamics, 2019, 95, 727-747.	2.7	15
5	Cluster computing of mechanisms dynamics using recursive formulation. Multibody System Dynamics, 2008, 20, 177-196.	1.7	12
6	Molecular dynamics simulation of simple polymer chain formation using divide and conquer algorithm based on the augmented Lagrangian method. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2015, 229, 116-131.	0.5	10
7	Efficient parallel formulation for dynamics simulation of large articulated robotic systems. , 2015, , .		10
8	Efficient Approach for Constraint Enforcement in Constrained Multibody System Dynamics. , 2013, , .		7
9	Hamiltonian direct differentiation and adjoint approaches for multibody system sensitivity analysis. International Journal for Numerical Methods in Engineering, 2020, 121, 5082-5100.	1.5	7
10	Adjoint method for optimal control of multibody systems in the Hamiltonian setting. Mechanism and Machine Theory, 2021, 166, 104473.	2.7	6
11	Mass transfer in osmotically dehydrated apple stored at temperatures above zero. Journal of Food Engineering, 2008, 86, 140-149.	2.7	4
12	Parallel Algorithm for Modeling Multi-Rigid Body System Dynamics With Nonholonomic Constraints. , 2013, , .		4
13	Dynamic Modeling and Analysis of a Lightweight Robotic Manipulator in Joint Space. Archive of Mechanical Engineering, 2015, 62, 279-302.	0.7	2
14	Optimal Design of Multibody Systems Using the Adjoint Method. Springer Proceedings in Mathematics and Statistics, 2018, , 241-253.	0.1	2
15	The Discrete Hamiltonian-Based Adjoint Method for Some Optimization Problems in Multibody Dynamics. Computational Methods in Applied Sciences (Springer), 2020, , 359-366.	0.1	2
16	Parallel Efficiency of Lagrange Multipliers Based Divide and Conquer Algorithm for Dynamics of Multibody Systems. , 2011, , .		2
17	Direct sensitivity analysis of planar multibody systems in the Hamiltonian framework. Mechanisms and Machine Science, 2019, , 3097-3106.	0.3	1
18	Parallel Hamiltonian Formulation for Forward Dynamics of Free-Flying Manipulators. GeoPlanet: Earth and Planetary Sciences, 2019, , 1-15.	0.2	0