

Filipe Marques

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,004
citations

687335

13
h-index

580810

25
g-index

29
all docs

29
docs citations

29
times ranked

539
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey and comparison of several friction force models for dynamic analysis of multibody mechanical systems. <i>Nonlinear Dynamics</i> , 2016, 86, 1407-1443.	5.2	292
2	An enhanced formulation to model spatial revolute joints with radial and axial clearances. <i>Mechanism and Machine Theory</i> , 2017, 116, 123-144.	4.5	117
3	Modeling and analysis of friction including rolling effects in multibody dynamics: a review. <i>Multibody System Dynamics</i> , 2019, 45, 223-244.	2.7	110
4	On the constraints violation in forward dynamics of multibody systems. <i>Multibody System Dynamics</i> , 2017, 39, 385-419.	2.7	88
5	An investigation of a novel LuGre-based friction force model. <i>Mechanism and Machine Theory</i> , 2021, 166, 104493.	4.5	54
6	A three-dimensional approach for contact detection between realistic wheel and rail surfaces for improved railway dynamic analysis. <i>Mechanism and Machine Theory</i> , 2020, 149, 103825.	4.5	48
7	Implementation of a non-Hertzian contact model for railway dynamic application. <i>Multibody System Dynamics</i> , 2020, 48, 41-78.	2.7	42
8	A Study on the Dynamics of Spatial Mechanisms With Frictional Spherical Clearance Joints. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017, 12, .	1.2	41
9	A finite element model of a 3D dry revolute joint incorporated in a multibody dynamic analysis. <i>Multibody System Dynamics</i> , 2019, 45, 293-313.	2.7	32
10	Examination and comparison of different methods to model closed loop kinematic chains using Lagrangian formulation with cut joint, clearance joint constraint and elastic joint approaches. <i>Mechanism and Machine Theory</i> , 2021, 160, 104294.	4.5	31
11	On the Frictional Contacts in Multibody System Dynamics. <i>Computational Methods in Applied Sciences (Springer)</i> , 2016, , 67-91.	0.3	27
12	A compendium of contact force models inspired by Hunt and Crossley's cornerstone work. <i>Mechanism and Machine Theory</i> , 2022, 167, 104501.	4.5	27
13	On the generation of enhanced lookup tables for wheel-rail contact models. <i>Wear</i> , 2019, 434-435, 202993.	3.1	23
14	Wheel-rail contact models in the presence of switches and crossings. <i>Vehicle System Dynamics</i> , 2023, 61, 838-870.	3.7	15
15	On the Modeling of Biomechanical Systems for Human Movement Analysis: A Narrative Review. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 4915-4958.	10.2	10
16	The first fifty years of the Mechanism and Machine Theory: Standing back and looking forward. <i>Mechanism and Machine Theory</i> , 2018, 125, 8-20.	4.5	8
17	A novel heat transfer coefficient identification methodology for the profile extrusion calibration stage. <i>Applied Thermal Engineering</i> , 2016, 103, 102-111.	6.0	7
18	Dynamic Modeling and Analysis of Pool Balls Interaction. <i>Computational Methods in Applied Sciences (Springer)</i> , 2020, , 79-86.	0.3	5

#	ARTICLE	IF	CITATIONS
19	A new energy conservation scheme for the numeric study of the heat transfer in profile extrusion calibration. Heat and Mass Transfer, 2017, 53, 2901-2913.	2.1	4
20	Utilization of Non-Conformal Wheel Surfaces for Railway Dynamics. Mechanisms and Machine Science, 2019, , 3291-3300.	0.5	3
21	A Study on the Dynamics of Spatial Mechanisms With Frictional Spherical Clearance Joints. , 2016, , .		2
22	An Optimization Approach to Generate Accurate and Efficient Lookup Tables for Engineering Applications. , 2019, , 1446-1457.		2
23	Railway Dynamics with Curved Contact Patch. Mechanisms and Machine Science, 2022, , 105-113.	0.5	0
24	On the Utilization of Simplified Methodologies for the Wheel-Rail Contact. Mechanisms and Machine Science, 2022, , 114-121.	0.5	0