Pedro Antunes

List of Publications by Year
in descending order

39 papers	525 citations

840776

11 h-index

713466

21 g-index

41 all docs	41 docs citations	41 times ranked	394 citing authors

#	Article	IF	Citations
1	Wheel-rail contact models in the presence of switches and crossings. Vehicle System Dynamics, 2023, 61, 838-870.	3.7	15
2	Enhancing pantograph-catenary dynamic performance using an inertance-integrated damping system. Vehicle System Dynamics, 2022, 60, 1909-1932.	3.7	15
3	Virtual pantograph-catenary environment for control development based on a co-simulation approach. Multibody System Dynamics, 2022, 55, 241-265.	2.7	2
4	A novel methodology to automatically include general track flexibility in railway vehicle dynamic analyses. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 478-493.	2.0	9
5	A finite element methodology to model flexible tracks with arbitrary geometry for railway dynamics applications. Computers and Structures, 2021, 254, 106519.	4.4	12
6	A new methodology to study the pantographâ€"catenary dynamics in curved railway tracks. Vehicle System Dynamics, 2020, 58, 425-452.	3.7	28
7	Implementation of a non-Hertzian contact model for railway dynamic application. Multibody System Dynamics, 2020, 48, 41-78.	2.7	42
8	A methodology to study high-speed pantograph-catenary interaction with realistic contact wire irregularities. Mechanism and Machine Theory, 2020, 152, 103940.	4.5	45
9	A Dedicated Control Design Methodology for Improved Tilting Train Performance. Lecture Notes in Mechanical Engineering, 2020, , 72-81.	0.4	2
10	Generalized Path Following Constraints with Spatial Curves for Roller Coaster Applications. Springer Proceedings in Advanced Robotics, 2019, , 335-343.	1.3	0
11	A co-simulation approach to the wheelâ€"rail contact with flexible railway track. Multibody System Dynamics, 2019, 45, 245-272.	2.7	51
12	Pantograph-catenary interaction in curved railway tracks. , 2019, , 1791-1798.		0
13	Railway vehicle dynamics interaction with a flexible track. , 2019, , 1777-1784.		0
14	Gathering big data for teamwork evaluation with microworlds. Cluster Computing, 2017, 20, 1637-1659.	5.0	3
15	A multi-service bus-sharing system for private fleets. , 2017, , .		0
16	PantoCat statement of method. Vehicle System Dynamics, 2015, 53, 314-328.	3.7	38
17	Finite Element Methodology for Flexible Track Models in Railway Dynamics Applications. International Journal of Vehicle Structures and Systems, 2014, 5, .	0.2	4
18	Reviewing the quality of awareness support in collaborative applications. Journal of Systems and Software, 2014, 89, 146-169.	4.5	49

#	ARTICLE	IF	CITATIONS
19	Using baseline methods to identify non-technical losses in the context of smart grids. , 2013, , .		6
20	Consumers performance evaluation of the participation in demand response programs using baseline methods. , 2013, , .		10
21	Determining the adjustment baseline parameters to define an accurate customer baseline load. , 2013, , .		7
22	A Comparative Study between Two Pantographs in Multiple Pantograph High-Speed Operations. International Journal of Railway Technology, 2013, 2, 83-108.	0.3	10
23	Identifying the Awareness Mechanisms for Mobile Collaborative Applications. Lecture Notes in Computer Science, 2013, , 241-256.	1.3	2
24	Structuring dimensions for collaborative systems evaluation. ACM Computing Surveys, 2012, 44, 1-28.	23.0	52
25	Recent Developments in Pantograph-Catenary Interaction Modelling and Analysis. International Journal of Railway Technology, 2012, 1, 249-278.	0.3	54
26	Supporting experimental collaborative systems evaluation. , 2011, , .		4
27	Analyzing the support for large group collaborations using Google Maps. , 2011, , .		4
28	Evaluation Methods for Groupware Systems. Lecture Notes in Computer Science, 2007, , 328-336.	1.3	24
29	Analyzing Shared Workspaces Design with Human-Performance Models. Lecture Notes in Computer Science, 2006, , 62-77.	1.3	8
30	Perceived Value: A Low-Cost Approach to Evaluate Meetingware. Lecture Notes in Computer Science, 2003, , 109-125.	1.3	6
31	Development of a Methodology for the Geometric Parameterization of Three-Dimensional Tracks. , 0, , .		2
32	Catenary Finite Element Model Initialization using Optimization. , 0, , .		4
33	Development of Flexible Track Models for Railway Vehicle Dynamics Applications. , 0, , .		2
34	Construction of Three-Dimensional Track Models for Roller-Coaster Applications. , 0, , .		1
35	Dynamics of Vehicles on Roads and Tracks Vol 2. , 0, , .		0
36	Development of a Computational Tool for the Dynamic Analysis of the Pantograph-Catenary Interaction for High-Speed Trains. , 0, , .		3

#	Article	IF	Citations
37	A Study on Multiple Pantograph Operations for High-Speed Catenary Contact. , 0, , .		4
38	Flexible Track Models in Railway Dynamics Using a Finite Element Formulation. , 0, , .		0
39	Dynamic Analysis of the Pantograph-Catenary, Interaction on Overlap Sections for High-Speed Railway Operations. , 0, , .		1