Pietro Salvini

List of Publications by Year in descending order

26 papers	536 citations	1163117 8 h-index	713466 21 g-index
26 all docs	26 docs citations	26 times ranked	441 citing authors

#	Article	IF	Citations
1	Review and comparison of dry friction force models. Nonlinear Dynamics, 2016, 83, 1785-1801.	5.2	348
2	Identification of CTOA and fracture process parameters by drop weight test and finite element simulation. Engineering Fracture Mechanics, 2003, 70, 553-566.	4.3	33
3	A balanced load mapping method based on radial basis functions and fuzzy sets. International Journal for Numerical Methods in Engineering, 2018, 115, 1411-1429.	2.8	26
4	A PROCEDURE FOR FATIGUE LIFE PREDICTION OF SPOT WELDED JOINTS. Fatigue and Fracture of Engineering Materials and Structures, 1997, 20, 1117-1128.	3.4	25
5	Finite strain analysis by image processing: smoothing techniques. Strain, 1995, 31, 151-158.	2.4	18
6	Dynamic analysis of a bogie for hunting detection through a simplified wheel–rail contact model. Multibody System Dynamics, 2011, 25, 429-460.	2.7	13
7	Large displacements of slender beams in plane: Analytical solution by means of a new hypergeometric function. International Journal of Solids and Structures, 2020, 185-186, 467-484.	2.7	13
8	Theoretical and experimental characterization of a FEM element assembly for the simulation of very compliant knitted mesh. International Journal for Numerical Methods in Engineering, 2016, 107, 419-429.	2.8	9
9	Fracture propagation in DWT back slotted specimens. International Journal of Fracture, 2004, 128, 159-169.	2.2	8
10	An Engineering Theory of thick Curved Beams loaded in-plane and out-of-plane: 3D Stress Analysis. European Journal of Mechanics, A/Solids, 2022, 92, 104484.	3.7	8
11	Modal Pursuit to Detect Large Displacements and Strain Fields by Digital Image Correlation. Strain, 2015, 51, 30-42.	2.4	6
12	Analytical Stiffness Matrix for Curved Metal Wires. Procedia Structural Integrity, 2018, 8, 43-55.	0.8	5
13	Modelling of structures made of filiform beams: Development of a curved finite element for wires. Finite Elements in Analysis and Design, 2020, 170, 103349.	3.2	5
14	Heavy Elastica soil-supported with lifting load and bending moment applied to an end: A new analytical approach for very large displacements and experimental validation. International Journal of Solids and Structures, 2020, 206, 153-169.	2.7	5
15	Strain measurements on compliant knitted mesh used in space antennas, by means of 2D Fourier analysis. Strain, 2018, 54, e12251.	2.4	3
16	A lookup table-based method for wheel–rail contact analysis. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2011, 225, 127-138.	0.8	2
17	Effect of fracture tunneling in DWT Tests. Engineering Fracture Mechanics, 2012, 81, 33-42.	4.3	2
18	New experimental set-up to approach pipeline fracture behaviour by three-point bending specimens. Fatigue and Fracture of Engineering Materials and Structures, 2012, 35, 502-593.	3.4	2

#	Article	IF	Citations
19	Experimental setup for the evaluation of large displacements in the inflected beams sustained to ground. IOP Conference Series: Materials Science and Engineering, 2021, 1038, 012078.	0.6	2
20	Inflectional Heavy Elastica with Unilateral Contact constraint: Analytical Solution through the Curvilinear Abscissa Mapping approximation. International Journal of Solids and Structures, 2022, 234-235, 111258.	2.7	2
21	Contact management in knitted metal mesh through an adaptive node placing. Computers and Structures, 2022, 264, 106772.	4.4	1
22	Direct tuning of inertia sensors of a navigation system using the neural network approach. Inverse Problems in Science and Engineering, 2010, 18, 131-144.	1.2	0
23	GDN-10 A MIXED FINITE ELEMENT : NUMERICAL SOLUTION FOR MESH STIFFNESS EVALUATION(GEAR) Tj ETQq1 1 0.784314 rgBT /Ov Transmissions, 2001, I.01.202, 51-56.	0.0	0
24	GDN-19 A GENERAL DYNAMIC MODELLING PROCEDURE FOR POWER GEAR TRANSMISSION(GEAR DYNAMICS) Tj ETQq0 0 0 rgBT /Overl Transmissions, 2001, I.01.202, 102-108.	0.0	0
25	Structural Modelling of Curved Wires. Lecture Notes in Mechanical Engineering, 2019, , 245-258.	0.4	0
26	The contact problem in FEM analysis of filiform structure for large deployable reflectors. IOP Conference Series: Materials Science and Engineering, 2022, 1214, 012033.	0.6	0