Emiliano Pereira

List of Publications by Year
in descending order

34 papers	664 citations	759055 12 h-index	580701 25 g-index
34 all docs	34 docs citations	34 times ranked	513 citing authors

#	Article	IF	Citations
1	Optimal vibration isolation and alignment over non-rigid bases with the CRO-SL ensemble. Engineering Applications of Artificial Intelligence, 2022, 113, 104984.	4.3	0
2	A Common Framework for Tuned and Active Mass Dampers: Application to a Two-Storey Building Model. Experimental Techniques, 2021, 45, 661-671.	0.9	5
3	Passive and active vibration isolation under isolator-structure interaction: application to vertical excitations. Meccanica, 2021, 56, 1921-1935.	1.2	5
4	LIPAc RF power system: design and main practical implementation issues. Fusion Engineering and Design, 2021, 165, 112226.	1.0	5
5	Optimum Shape Design of Geometrically Nonlinear Submerged Arches Using the Coral Reefs Optimization with Substrate Layers Algorithm. Applied Sciences (Switzerland), 2021, 11, 5862.	1.3	2
6	Eliminating Stick-Slip Vibrations in Drill-Strings with a Dual-Loop Control Strategy Optimised by the CRO-SL Algorithm. Mathematics, 2021, 9, 1526.	1.1	8
7	Memetic coral reefs optimization algorithms for optimal geometrical design of submerged arches. Swarm and Evolutionary Computation, 2021, 67, 100958.	4.5	9
8	Control architecture for a novel Leg-Based Stair-Climbing Wheelchair. , 2021, , .		0
9	Acquisition of transversal skills in university studies through participation in robotics competitions. , 2020, , .		1
10	Submerged Arches Optimal Design With a Multi-Method Ensemble Meta-Heuristic Approach. IEEE Access, 2020, 8, 215057-215072.	2.6	9
11	Vibration Isolation and Alignment of Multiple Platforms on a Non-Rigid Supporting Structure. Actuators, 2020, 9, 108.	1.2	4
12	A general vibration control methodology for human-induced vibrations. Structural Control and Health Monitoring, 2019, 26, e2406.	1.9	14
13	Design and Test of Cryogenic Cold Plate for Thermal-Vacuum Testing of Space Components. Energies, 2019, 12, 2991.	1.6	2
14	A Novel Approach for a Leg-based Stair-climbing Wheelchair based on Electrical Linear Actuators. , 2019, , .		2
15	Active vibration control design using the Coral Reefs Optimization with Substrate Layer algorithm. Engineering Structures, 2018, 157, 14-26.	2.6	24
16	Efficient fractal-based mutation in evolutionary algorithms from iterated function systems. Communications in Nonlinear Science and Numerical Simulation, 2018, 56, 434-446.	1.7	4
17	Structures vibration control via Tuned Mass Dampers using a co-evolution Coral Reefs Optimization algorithm. Journal of Sound and Vibration, 2017, 393, 62-75.	2.1	37
18	A new procedure based on time domain indicators for optimal TMD tuning on footbridges. Procedia Engineering, 2017, 199, 2850-2855.	1.2	0

#	Article	IF	Citations
19	Exploring vibration control strategies for a footbridge with time-varying modal parameters. Journal of Physics: Conference Series, 2016, 744, 012170.	0.3	5
20	Passivity-based control of single-link flexible manipulators using a linear strain feedback. Mechanism and Machine Theory, 2014, 71, 191-208.	2.7	40
21	Optimal control-based methodology for active vibration control of pedestrian structures. Engineering Structures, 2014, 80, 153-162.	2.6	25
22	Stability of positive-position feedback controllers with low-frequency restrictions. Journal of Sound and Vibration, 2013, 332, 2900-2909.	2.1	6
23	Integral resonant control scheme for cancelling human-induced vibrations in light-weight pedestrian structures. Structural Control and Health Monitoring, 2012, 19, 55-69.	1.9	68
24	Adaptive input shaping for single-link flexible manipulators using an algebraic identification. Control Engineering Practice, 2012, 20, 138-147.	3.2	45
25	Enhancing active vibration control of pedestrian structures using inertial actuators with local feedback control. Engineering Structures, 2012, 41, 157-166.	2.6	40
26	Integral Resonant Control for Vibration Damping and Precise Tip-Positioning of a Single-Link Flexible Manipulator. IEEE/ASME Transactions on Mechatronics, 2011, 16, 232-240.	3.7	159
27	Algebraic identification of the first two natural frequencies of flexible-beam-like structures. Mechanical Systems and Signal Processing, 2011, 25, 2324-2335.	4.4	8
28	Concurrent Design of Multimode Input Shapers and Link Dynamics for Flexible Manipulators. IEEE/ASME Transactions on Mechatronics, 2010, 15, 646-651.	3.7	30
29	Adaptive input shaping for manoeuvring flexible structures using an algebraic identification technique. Automatica, 2009, 45, 1046-1051.	3.0	65
30	A hybrid control strategy for vibration damping and precise tip-positioning of a single-link flexible manipulator. , 2009, , .		6
31	Analog implementation of an integral resonant control scheme. Smart Materials and Structures, 2008, 17, 067001.	1.8	6
32	A new design methodology for passivity-based control of single-link flexible manipulators. , 2007, , .		7
33	Feedforward control of multimode single-link flexible manipulators based on an optimal mechanical design. Robotics and Autonomous Systems, 2006, 54, 651-666.	3.0	21
34	Approaches of Discrete Feedforward Control for Vibration Cancellation in Multimode Single-Link Flexible Manipulators. , 2006, , .		2