LuÃs Neves

List of Publications by Year
in descending order

81 papers	1,762 citations	21 h-index 331538	39 g-index 302012
83 all docs	83 docs citations	83 times ranked	1473 citing authors

#	Article	IF	Citations
1	Application of Petri Nets to Manage Bridge Decks. Lecture Notes in Civil Engineering, 2022, , 1308-1317.	0.3	1
2	Deduction of ultimate equilibrium limit states for concrete gravity dams keyed into rock mass foundations based on large displacement analysis. Structures, 2022, 38, 1180-1190.	1.7	6
3	Retrofitting of Traditional Timber Floors. RILEM State-of-the-Art Reports, 2021, , 221-245.	0.3	0
4	Typhoon track simulations in the North West Pacific: Informing a new wind map for Vietnam. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 208, 104441.	1.7	13
5	Mechanical Characterization of Iroko Wood Using Small Specimens. Buildings, 2021, 11, 116.	1.4	1
6	Macro modelling of traffic flow using continuous timed Petri nets. Transportation Planning and Technology, 2021, 44, 503-523.	0.9	1
7	Incorporating defect specific condition indicators in a bridge life cycle analysis. Engineering Structures, 2021, 246, 113003.	2.6	4
8	Mechanical performance of eco-efficient hollow clay bricks incorporating industrial nano-crystalline aluminium sludge. European Journal of Environmental and Civil Engineering, 2020, 24, 1921-1938.	1.0	6
9	Stochastic maintenance models for ceramic claddings. Structure and Infrastructure Engineering, 2020, 16, 247-265.	2.0	20
10	Reliability assessment of shallow foundations on undrained soils considering soil spatial variability. Computers and Geotechnics, 2020, 119, 103369.	2.3	11
11	Modelling interactions between multiple bridge deterioration mechanisms. Engineering Structures, 2020, 221, 111059.	2.6	6
12	Ã€ priori uplift pressure model for concrete dam foundations based on piezometric monitoring data. Structure and Infrastructure Engineering, 2020, , 1-12.	2.0	3
13	Multi-defect modelling of bridge deterioration using truncated inspection records. Reliability Engineering and System Safety, 2020, 200, 106962.	5.1	19
14	Stochastic Petri-net models to predict the degradation of ceramic claddings. Building Research and Information, 2019, 47, 697-715.	2.0	10
15	Time-dependent reliability analyses of prestressed concrete girders strengthened with CFRP laminates. Engineering Structures, 2019, 196, 109297.	2.6	14
16	Probabilistic prediction of asphalt pavement performance. Road Materials and Pavement Design, 2019, 20, S247-S264.	2.0	33
17	Probabilistic-based assessment of existing steel-concrete composite bridges â€" Application to Sousa River Bridge. Engineering Structures, 2019, 181, 95-110.	2.6	18
18	Effect of non-structural masonry brick infill walls on the robustness of a RC framed building severely damaged due to a landslide. Engineering Structures, 2019, 180, 274-283.	2.6	22

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19	Verification of the HDM-4 fuel consumption model using a Big data approach: A UK case study. Transportation Research, Part D: Transport and Environment, 2019, 67, 109-118.	3.2	28
20	Fragility Assessment of Pre-Northridge Steel Moment Frames Using Finite-Length Plastic Hinge Elements and Concentrated Plasticity Fracture Elements. CMES - Computer Modeling in Engineering and Sciences, 2019, 120, 657-676.	0.8	1
21	Probabilistic Model for the Representation of the Reservoir Water Level of Concrete Dams During Normal Operation Periods. Water Resources Management, 2018, 32, 3041-3052.	1.9	7
22	Reliability-based design of interventions in deteriorated timber structures. International Journal of Architectural Heritage, 2018, 12, 507-515.	1.7	6
23	Stochastic Petri net-based modelling of the durability of renderings. Automation in Construction, 2018, 87, 96-105.	4.8	18
24	Seismic assessment of a heavy-timber frame structure with ring-doweled moment-resisting connections. Bulletin of Earthquake Engineering, 2018, 16, 1341-1371.	2.3	7
25	Probabilistic-based characterisation of the mechanical properties of CFRP laminates. Construction and Building Materials, 2018, 169, 132-141.	3.2	16
26	Accelerating Petri-Net simulations using NVIDIA Graphics Processing Units. European Journal of Operational Research, 2018, 265, 361-371.	3.5	5
27	Designing NSM FRP systems in concrete using partial safety factors. Composites Part B: Engineering, 2018, 139, 12-23.	5.9	8
28	Behavior of reinforced concrete frame with masonry infill wall subjected to vertical load. Engineering Structures, 2018, 171, 476-487.	2.6	46
29	On the robustness to corrosion in the life cycle assessment of an existing reinforced concrete bridge. Structure and Infrastructure Engineering, 2018, 14, 137-150.	2.0	13
30	GeSI. CSR, Sustainability, Ethics & Governance, 2018, , 281-293.	0.2	1
31	A Petri-Net-based modelling approach to railway bridge asset management. Structure and Infrastructure Engineering, 2017, 13, 287-297.	2.0	27
32	Influence of earthquake groundâ€motion duration on damage estimation: application to steel moment resisting frames. Earthquake Engineering and Structural Dynamics, 2017, 46, 27-49.	2.5	63
33	Rolling resistance contribution to a road pavement life cycle carbon footprint analysis. International Journal of Life Cycle Assessment, 2017, 22, 972-985.	2.2	24
34	Implementation and Calibration of Finite-Length Plastic Hinge Elements for Use in Seismic Structural Collapse Analysis. Journal of Earthquake Engineering, 2017, 21, 1197-1219.	1.4	15
35	Reliabilityâ€based approach to the robustness of corroded reinforced concrete structures. Structural Concrete, 2017, 18, 316-325.	1.5	20
36	Application of machine learning for fuel consumption modelling of trucks. , 2017, , .		46

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37	Using truck sensors for road pavement performance investigation. , 2017, , .		1
38	Transparency and good governance as success factors in public private partnerships. , 2017, , 39-46.		0
39	Intermediate stage traffic technical solution of prince Branimir Street in Zagreb. , 2017, , 225-232.		0
40	Development of an environmental Life-Cycle Assessment (LCA) protocol for flexible pavements that integrates life-cycle components to a proprietary software. , 2017, , 41-50.		0
41	Probabilistic analysis of degradation of faÃ§ade claddings using Markov chain models. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2871-2892.	1.3	15
42	Incorporating local environmental factors into railway bridge asset management. Engineering Structures, 2016, 128, 362-373.	2.6	11
43	Using data mining algorithms to predict the bond strength of NSM FRP systems in concrete. Construction and Building Materials, 2016, 126, 484-495.	3.2	21
44	A Computational Framework for Infrastructure Asset Maintenance Scheduling. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2016, 26, 94-102.	0.5	17
45	Fracture-based interface model for NSM FRP systems in concrete. Composite Structures, 2016, 152, 816-828.	3.1	3
46	Bayesian assessment of an existing bridge: a case study. Structure and Infrastructure Engineering, 2016, 12, 61-77.	2.0	18
47	An innovative framework for probabilistic-based structural assessment with an application to existing reinforced concrete structures. Engineering Structures, 2016, 111, 552-564.	2.6	27
48	Inference on stiffness and strength of existing chestnut timber elements using Hierarchical Bayesian Probability Networks. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4013-4028.	1.3	3
49	Probabilistic transition of condition: render facades. Building Research and Information, 2016, 44, 301-318.	2.0	23
50	A review on the bond behavior of FRP NSM systems in concrete. Construction and Building Materials, 2015, 93, 1157-1169.	3.2	86
51	CraMs: Craniometric Analysis Application Using 3D Skull Models. IEEE Computer Graphics and Applications, 2015, 35, 11-17.	1.0	4
52	Deterioration Modeling of Steel Moment Resisting Frames Using Finite-Length Plastic Hinge Force-Based Beam-Column Elements. Journal of Structural Engineering, 2015, 141, .	1.7	21
53	Review and application of Artificial Neural Networks models in reliability analysis of steel structures. Structural Safety, 2015, 52, 78-89.	2.8	291
54	Asset Management. , 2015, , 93-110.		0

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55	PROBABILISTIC ANALYSIS OF BEARING CAPACITY OF SHALLOW FOUNDATIONS USING THREE-DIMENSIONAL LIMIT ANALYSES. International Journal of Computational Methods, 2014, 11, 1342008.	0.8	21
56	Application of Reliability-Based Robustness Assessment of Steel Moment Resisting Frame Structures under Post-Mainshock Cascading Events. Journal of Structural Engineering, 2014, 140, .	1.7	39
57	Probabilistic Analysis of High Strength Concrete Girders Strengthened with CFRP. , 2014, , .		2
58	In situ measured cross section geometry of old timber structures and its influence on structural safety. Materials and Structures/Materiaux Et Constructions, 2013, 46, 1193-1208.	1.3	45
59	Reliability analysis of a timber truss system subjected to decay. Engineering Structures, 2013, 46, 184-192.	2.6	36
60	Quantifying Redundancy and Robustness of Structures. , 2013, , .		4
61	A Probabilistic Assessment Methodology for Life Cycle Analysis of Structures. , 2012, , .		0
62	Probabilistic models for mechanical properties of prestressing strands. Construction and Building Materials, 2012, 36, 84-89.	3.2	13
63	Robustness of timber structures in seismic areas. Engineering Structures, 2011, 33, 3099-3105.	2.6	13
64	Bayesian Probabilistic Assessment of In-Situ Concrete Strength. , 2010, , .		1
65	Safety Evaluation of Timber Structures through Probabilistic Analysis. Advanced Materials Research, 2010, 133-134, 337-342.	0.3	4
66	Robustness of corroded reinforced concrete structures â€" a structural performance approach. Structure and Infrastructure Engineering, 2010, , 1-17.	2.0	15
67	Optimizing Lifetime Condition and Reliability of Deteriorating Structures with Emphasis on Bridges. Journal of Structural Engineering, 2008, 134, 544-552.	1.7	38
68	Structural Performance Updating and Optimization with Conflicting Objectives under Uncertainty. , 2008, , .		4
69	Probabilistic Lifetime-Oriented Multiobjective Optimization of Bridge Maintenance: Combination of Maintenance Types. Journal of Structural Engineering, 2006, 132, 1821-1834.	1.7	82
70	Optimizing Lifetime Condition and Reliability of Deteriorating Structures with Emphasis on Bridges. , 2006, , 1.		0
71	Optimum maintenance strategy for deteriorating bridge structures based on lifetime functions. Engineering Structures, 2006, 28, 196-206.	2.6	66
72	The use of lifetime functions in the optimization of interventions on existing bridges considering maintenance and failure costs. Reliability Engineering and System Safety, 2006, 91, 698-705.	5.1	45

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73	Probabilistic Lifetime-Oriented Multiobjective Optimization of Bridge Maintenance: Single Maintenance Type. Journal of Structural Engineering, 2006, 132, 991-1005.	1.7	76
74	Condition, safety and cost profiles for deteriorating structures with emphasis on bridges. Reliability Engineering and System Safety, 2005, 89, 185-198.	5.1	81
75	Service life prediction of structural systems using lifetime functions with emphasis on bridges. Reliability Engineering and System Safety, 2004, 86, 39-51.	5.1	49
76	Cost of life extension of deteriorating structures under reliability-based maintenance. Computers and Structures, 2004, 82, 1077-1089.	2.4	28
77	Probabilistic Life-Cycle Analysis of Deteriorating Structures under Multiple Performance Constraints. , 2004, , 1.		2
78	Probabilistic Performance Prediction of Deteriorating Structures Under Different Maintenance Strategies: Condition, Safety and Cost. , 2003, , 9.		6
79	Cost of reliability improvement and deterioration delay of maintained structures. , 2003, , 2332-2335.		1
80	Cost of reliability improvement and deterioration delay of maintained structures. , 2003, , 2332-2335.		0
81	Reliability analysis of steel connection components based on FEM. Engineering Failure Analysis, 2001, 8, 29-48.	1.8	9