LuÃs Neves

List of Publications by Year
in descending order

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

#	ARTICLE	IF	CITATIONS
1	Review and application of Artificial Neural Networks models in reliability analysis of steel structures. Structural Safety, 2015, 52, 78-89.	2.8	291
2	A review on the bond behavior of FRP NSM systems in concrete. Construction and Building Materials, 2015, 93, 1157-1169.	3.2	86
3	Probabilistic Lifetime-Oriented Multiobjective Optimization of Bridge Maintenance: Combination of Maintenance Types. Journal of Structural Engineering, 2006, 132, 1821-1834.	1.7	82
4	Condition, safety and cost profiles for deteriorating structures with emphasis on bridges. Reliability Engineering and System Safety, 2005, 89, 185-198.	5.1	81
5	Probabilistic Lifetime-Oriented Multiobjective Optimization of Bridge Maintenance: Single Maintenance Type. Journal of Structural Engineering, 2006, 132, 991-1005.	1.7	76
6	Optimum maintenance strategy for deteriorating bridge structures based on lifetime functions. Engineering Structures, 2006, 28, 196-206.	2.6	66
7	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
8	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
9	Application of machine learning for fuel consumption modelling of trucks. , 2017, , .		46
10	Behavior of reinforced concrete frame with masonry infill wall subjected to vertical load. Engineering Structures, 2018, 171, 476-487.	2.6	46
11	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
12	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
13	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
14	Optimizing Lifetime Condition and Reliability of Deteriorating Structures with Emphasis on Bridges. Journal of Structural Engineering, 2008, 134, 544-552.	1.7	38
15	Reliability analysis of a timber truss system subjected to decay. Engineering Structures, 2013, 46, 184-192.	2.6	36
16	Probabilistic prediction of asphalt pavement performance. Road Materials and Pavement Design, 2019, 20, S247-S264.	2.0	33
17	Cost of life extension of deteriorating structures under reliability-based maintenance. Computers and Structures, 2004, 82, 1077-1089.	2.4	28
18	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

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19	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
20	A Petri-Net-based modelling approach to railway bridge asset management. Structure and Infrastructure Engineering, 2017, 13, 287-297.	2.0	27
21	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
22	Probabilistic transition of condition: render facades. Building Research and Information, 2016, 44, 301-318.	2.0	23
23	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
24	PROBABILISTIC ANALYSIS OF BEARING CAPACITY OF SHALLOW FOUNDATIONS USING THREE-DIMENSIONAL LIMIT ANALYSES. International Journal of Computational Methods, 2014, 11, 1342008.	0.8	21
25	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
26	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
27	Reliabilityâ€based approach to the robustness of corroded reinforced concrete structures. Structural Concrete, 2017, 18, 316-325.	1.5	20
28	Stochastic maintenance models for ceramic claddings. Structure and Infrastructure Engineering, 2020, 16, 247-265.	2.0	20
29	Multi-defect modelling of bridge deterioration using truncated inspection records. Reliability Engineering and System Safety, 2020, 200, 106962.	5.1	19
30	Bayesian assessment of an existing bridge: a case study. Structure and Infrastructure Engineering, 2016, 12, 61-77.	2.0	18
31	Stochastic Petri net-based modelling of the durability of renderings. Automation in Construction, 2018, 87, 96-105.	4.8	18
32	Probabilistic-based assessment of existing steel-concrete composite bridges â€“ Application to Sousa River Bridge. Engineering Structures, 2019, 181, 95-110.	2.6	18
33	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
34	Probabilistic-based characterisation of the mechanical properties of CFRP laminates. Construction and Building Materials, 2018, 169, 132-141.	3.2	16
35	Robustness of corroded reinforced concrete structures â€“ a structural performance approach. Structure and Infrastructure Engineering, 2010, , 1-17.	2.0	15
36	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

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37	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
38	Time-dependent reliability analyses of prestressed concrete girders strengthened with CFRP laminates. Engineering Structures, 2019, 196, 109297.	2.6	14
39	Robustness of timber structures in seismic areas. Engineering Structures, 2011, 33, 3099-3105.	2.6	13
40	Probabilistic models for mechanical properties of prestressing strands. Construction and Building Materials, 2012, 36, 84-89.	3.2	13
41	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
42	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
43	Incorporating local environmental factors into railway bridge asset management. Engineering Structures, 2016, 128, 362-373.	2.6	11
44	Reliability assessment of shallow foundations on undrained soils considering soil spatial variability. Computers and Geotechnics, 2020, 119, 103369.	2.3	11
45	Stochastic Petri-net models to predict the degradation of ceramic claddings. Building Research and Information, 2019, 47, 697-715.	2.0	10
46	Reliability analysis of steel connection components based on FEM. Engineering Failure Analysis, 2001, 8, 29-48.	1.8	9
47	Designing NSM FRP systems in concrete using partial safety factors. Composites Part B: Engineering, 2018, 139, 12-23.	5.9	8
48	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
49	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
50	Probabilistic Performance Prediction of Deteriorating Structures Under Different Maintenance Strategies: Condition, Safety and Cost. , 2003, , 9.		6
51	Reliability-based design of interventions in deteriorated timber structures. International Journal of Architectural Heritage, 2018, 12, 507-515.	1.7	6
52	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
53	Modelling interactions between multiple bridge deterioration mechanisms. Engineering Structures, 2020, 221, 111059.	2.6	6
54	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

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55	Accelerating Petri-Net simulations using NVIDIA Graphics Processing Units. European Journal of Operational Research, 2018, 265, 361-371.	3.5	5
56	Structural Performance Updating and Optimization with Conflicting Objectives under Uncertainty. , 2008, , .		4
57	Safety Evaluation of Timber Structures through Probabilistic Analysis. Advanced Materials Research, 2010, 133-134, 337-342.	0.3	4
58	Quantifying Redundancy and Robustness of Structures. , 2013, , .		4
59	CraMs: Craniometric Analysis Application Using 3D Skull Models. IEEE Computer Graphics and Applications, 2015, 35, 11-17.	1.0	4
60	Incorporating defect specific condition indicators in a bridge life cycle analysis. Engineering Structures, 2021, 246, 113003.	2.6	4
61	Fracture-based interface model for NSM FRP systems in concrete. Composite Structures, 2016, 152, 816-828.	3.1	3
62	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
63	Ã€ priori uplift pressure model for concrete dam foundations based on piezometric monitoring data. Structure and Infrastructure Engineering, 2020, , 1-12.	2.0	3
64	Probabilistic Life-Cycle Analysis of Deteriorating Structures under Multiple Performance Constraints. , 2004, , 1.		2
65	Probabilistic Analysis of High Strength Concrete Girders Strengthened with CFRP. , 2014, , .		2
66	Cost of reliability improvement and deterioration delay of maintained structures. , 2003, , 2332-2335.		1
67	Bayesian Probabilistic Assessment of In-Situ Concrete Strength. , 2010, , .		1
68	Mechanical Characterization of Iroko Wood Using Small Specimens. Buildings, 2021, 11, 116.	1.4	1
69	Macro modelling of traffic flow using continuous timed Petri nets. Transportation Planning and Technology, 2021, 44, 503-523.	0.9	1
70	Using truck sensors for road pavement performance investigation. , 2017, , .		1
71	GeSI. CSR, Sustainability, Ethics & Governance, 2018, , 281-293.	0.2	1
72	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

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73	Application of Petri Nets to Manage Bridge Decks. Lecture Notes in Civil Engineering, 2022, , 1308-1317.	0.3	1
74	Optimizing Lifetime Condition and Reliability of Deteriorating Structures with Emphasis on Bridges. , 2006, , 1.		0
75	A Probabilistic Assessment Methodology for Life Cycle Analysis of Structures. , 2012, , .		0
76	Retrofitting of Traditional Timber Floors. RILEM State-of-the-Art Reports, 2021, , 221-245.	0.3	0
77	Asset Management. , 2015, , 93-110.		0
78	Transparency and good governance as success factors in public private partnerships. , 2017, , 39-46.		0
79	Intermediate stage traffic technical solution of prince Branimir Street in Zagreb. , 2017, , 225-232.		0
80	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
81	Cost of reliability improvement and deterioration delay of maintained structures. , 2003, , 2332-2335.		0