

# Helder Sousa

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

263  
citations

1040056

9  
h-index

940533

16  
g-index

21  
all docs

21  
docs citations

21  
times ranked

221  
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction assessment and long-term prediction of prestressed concrete bridges based on monitoring data. <i>Engineering Structures</i> , 2013, 52, 26-37.	5.3	43
2	Bridge deflection evaluation using strain and rotation measurements. <i>Smart Structures and Systems</i> , 2013, 11, 365-386.	1.9	41
3	Numerical Evaluation of the Long-Term Behavior of Precast Continuous Bridge Decks. <i>Journal of Bridge Engineering</i> , 2012, 17, 89-96.	2.9	23
4	Assessment and Management of Concrete Bridges Supported by Monitoring Data-Based Finite-Element Modeling. <i>Journal of Bridge Engineering</i> , 2014, 19, .	2.9	22
5	Design and implementation of a monitoring system applied to a long-span prestressed concrete bridge. <i>Structural Concrete</i> , 2011, 12, 82-93.	3.1	21
6	A novel pro-active approach towards SHM-based bridge management supported by FE analysis and Bayesian methods. <i>Structure and Infrastructure Engineering</i> , 2020, 16, 233-246.	3.7	18
7	Sparse representation approach to data compression for strain-based traffic load monitoring: A comparative study. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 122, 630-637.	5.0	17
8	Quantifying monitoring requirements for predicting creep deformations through Bayesian updating methods. <i>Structural Safety</i> , 2019, 76, 40-50.	5.3	17
9	ASSESSMENT OF TRAFFIC LOAD EVENTS AND STRUCTURAL EFFECTS ON ROAD BRIDGES BASED ON STRAIN MEASUREMENTS. <i>Journal of Civil Engineering and Management</i> , 2015, 22, 457-469.	3.5	15
10	European review of performance indicators towards sustainable road bridge management. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2020, 173, 109-124.	0.7	11
11	Advanced FE modeling supported by monitoring toward management of large civil infrastructures: The case study of LezÁria Bridge. <i>Structural Concrete</i> , 2020, 21, 1309-1320.	3.1	9
12	Long-term monitoring and assessment of a precast continuous viaduct. <i>Structure and Infrastructure Engineering</i> , 2013, 9, 777-793.	3.7	8
13	Evidence on the value of information towards decision-makers. <i>Structure and Infrastructure Engineering</i> , 2022, 18, 439-440.	3.7	5
14	Novel semi-analytical model to calculate shear forces due to viscoelastic interactions. <i>Engineering Structures</i> , 2019, 183, 999-1013.	5.3	3
15	Multiscale modelling of the long-term performance of prestressed concrete structures – Case studies on T-Girder beams. <i>Engineering Structures</i> , 2021, 231, 111761.	5.3	3
16	An information value guide for infrastructure design and operation executives – fundamental idea & concept. <i>IABSE Symposium Report</i> , 2019, .	0.0	3
17	Control of long-term deflections of RC beams using reinforcements and low-shrinkage concrete. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 2020, 173, 63-77.	0.6	1
18	Value of information of a pro-active SHM-based tool supported by advanced FE models and Bayesian statistics towards efficiency in bridge management. <i>Structure and Infrastructure Engineering</i> , 2022, 18, 554-572.	3.7	1

#	ARTICLE	IF	CITATIONS
19	A practical guide on the quantification of value of information gained by structural health monitoring and application to historic masonry structures. Structure and Infrastructure Engineering, 0, , 1-15.	3.7	1
20	A pro-active concept in asset management supported by the quantified Value of Structural Health Monitoring. , 2019, , .		0