

Mohammad Reza Jahanshahi

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,865
citations

318942

23
h-index

488211

31
g-index

40
all docs

40
docs citations

40
times ranked

2726
citing authors

#	ARTICLE	IF	CITATIONS
1	NB-CNN: Deep Learning-Based Crack Detection Using Convolutional Neural Network and Naïve Bayes Data Fusion. IEEE Transactions on Industrial Electronics, 2018, 65, 4392-4400.	5.2	665
2	Evaluation of deep learning approaches based on convolutional neural networks for corrosion detection. Structural Health Monitoring, 2018, 17, 1110-1128.	4.3	215
3	An innovative methodology for detection and quantification of cracks through incorporation of depth perception. Machine Vision and Applications, 2013, 24, 227-241.	1.7	206
4	Adaptive vision-based crack detection using 3D scene reconstruction for condition assessment of structures. Automation in Construction, 2012, 22, 567-576.	4.8	196
5	Automated defect classification in sewer closed circuit television inspections using deep convolutional neural networks. Automation in Construction, 2018, 91, 273-283.	4.8	178
6	A survey and evaluation of promising approaches for automatic image-based defect detection of bridge structures. Structure and Infrastructure Engineering, 2009, 5, 455-486.	2.0	139
7	Data fusion approaches for structural health monitoring and system identification: Past, present, and future. Structural Health Monitoring, 2020, 19, 552-586.	4.3	124
8	Deep Convolutional Neural Network for Structural Dynamic Response Estimation and System Identification. Journal of Engineering Mechanics - ASCE, 2019, 145, .	1.6	119
9	Unsupervised Approach for Autonomous Pavement-Defect Detection and Quantification Using an Inexpensive Depth Sensor. Journal of Computing in Civil Engineering, 2013, 27, 743-754.	2.5	118
10	A texture-based Video Processing Methodology Using Bayesian Data Fusion for Autonomous Crack Detection on Metallic Surfaces. Computer-Aided Civil and Infrastructure Engineering, 2017, 32, 271-287.	6.3	116
11	A new methodology for non-contact accurate crack width measurement through photogrammetry for automated structural safety evaluation. Smart Materials and Structures, 2013, 22, 035019.	1.8	98
12	Deep Learning-based Automated Detection of Sewer Defects in CCTV Videos. Journal of Computing in Civil Engineering, 2020, 34, .	2.5	87
13	Pruning deep convolutional neural networks for efficient edge computing in condition assessment of infrastructures. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 774-789.	6.3	73
14	Deep learning-based multi-class damage detection for autonomous post-disaster reconnaissance. Structural Control and Health Monitoring, 2020, 27, e2507.	1.9	65
15	Multi-image stitching and scene reconstruction for evaluating defect evolution in structures. Structural Health Monitoring, 2011, 10, 643-657.	4.3	55
16	Inexpensive Multimodal Sensor Fusion System for Autonomous Data Acquisition of Road Surface Conditions. IEEE Sensors Journal, 2016, 16, 7731-7743.	2.4	45
17	Estimating Pavement Roughness by Fusing Color and Depth Data Obtained from an Inexpensive RGB-D Sensor. Sensors, 2019, 19, 1655.	2.1	37
18	An evaluation of image-based structural health monitoring using integrated unmanned aerial vehicle platform. Structural Control and Health Monitoring, 2019, 26, e2276.	1.9	34

#	ARTICLE	IF	CITATIONS
19	3D dynamic displacement-field measurement for structural health monitoring using inexpensive RGB-D based sensor. <i>Smart Materials and Structures</i> , 2017, 26, 125016.	1.8	33
20	Design of one-dimensional acoustic metamaterials using machine learning and cell concatenation. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 2399-2423.	1.7	33
21	Computer-Aided Approach for Rapid Post-Event Visual Evaluation of a Building Façade. <i>Sensors</i> , 2018, 18, 3017.	2.1	31
22	Parametric Performance Evaluation of Wavelet-Based Corrosion Detection Algorithms for Condition Assessment of Civil Infrastructure Systems. <i>Journal of Computing in Civil Engineering</i> , 2013, 27, 345-357.	2.5	30
23	Color and depth data fusion using an RGB-D sensor for inexpensive and contactless dynamic displacement-field measurement. <i>Structural Control and Health Monitoring</i> , 2017, 24, e2000.	1.9	26
24	ARF-Crack: rotation invariant deep fully convolutional network for pixel-level crack detection. <i>Machine Vision and Applications</i> , 2020, 31, 1.	1.7	24
25	Reconfigurable swarm robots for structural health monitoring: a brief review. <i>International Journal of Intelligent Robotics and Applications</i> , 2017, 1, 287-305.	1.6	23
26	NB-FCN: Real-Time Accurate Crack Detection in Inspection Videos Using Deep Fully Convolutional Network and Parametric Data Fusion. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 5325-5334.	2.4	22
27	Automated Rutting Measurement Using an Inexpensive RGB-D Sensor Fusion Approach. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2019, 145, 04018061.	0.8	13
28	Vision-based quantitative assessment of microcracks on reactor internal components of nuclear power plants. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 1013-1026.	2.0	12
29	Wheat Spike Blast Image Classification Using Deep Convolutional Neural Networks. <i>Frontiers in Plant Science</i> , 2021, 12, 673505.	1.7	11
30	A physics-constrained deep learning based approach for acoustic inverse scattering problems. <i>Mechanical Systems and Signal Processing</i> , 2022, 164, 108190.	4.4	9
31	A Novel Crack Detection Approach for Condition Assessment of Structures. , 2011, , .		7
32	Accurate and Robust Scene Reconstruction in the Presence of Misassociated Features for Aerial Sensing. <i>Journal of Computing in Civil Engineering</i> , 2017, 31, .	2.5	6
33	Applications of computer vision-based structural health monitoring and condition assessment in future smart cities. , 2022, , 193-221.		6
34	Video-based crack detection using deep learning and Nave Bayes data fusion. , 2018, , .		3
35	Nondestructive vision-based approaches for condition assessment of structures. , 2011, , .		2
36	Applications of depth sensing for advanced structural condition assessment in smart cities. , 2022, , 305-318.		2

#	ARTICLE	IF	CITATIONS
37	Multi-Image Stitching and Scene Reconstruction for Evaluating Change Evolution in Structures. , 2011, , .		1
38	An Autonomous Video Analysis Method for Crack Detection on Metallic Surfaces Based on Texture Recognition and Bayesian Data Fusion. , 2017, , .		1
39	Progressive image stitching algorithm for vision based automated inspection. , 2016, , .		0
40	Color and depth data fusion using an RGB-D sensor for inexpensive and contactless dynamic displacement-field measurement. Structural Control and Health Monitoring, 2018, 25, e2198.	1.9	0