Mohammad Reza Jahanshahi

List of Publications by Year
in descending order

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40 papers	2,865 citations	279798 23 h-index	434195 31 g-index
40 all docs	40 docs citations	40 times ranked	2414 citing authors

#	Article	IF	Citations
1	NB-CNN: Deep Learning-Based Crack Detection Using Convolutional Neural Network and NaÃ¯ve Bayes Data Fusion. IEEE Transactions on Industrial Electronics, 2018, 65, 4392-4400.	7.9	665
2	Evaluation of deep learning approaches based on convolutional neural networks for corrosion detection. Structural Health Monitoring, 2018, 17, 1110-1128.	7.5	215
3	An innovative methodology for detection and quantification of cracks through incorporation of depth perception. Machine Vision and Applications, 2013, 24, 227-241.	2.7	206
4	Adaptive vision-based crack detection using 3D scene reconstruction for condition assessment of structures. Automation in Construction, 2012, 22, 567-576.	9.8	196
5	Automated defect classification in sewer closed circuit television inspections using deep convolutional neural networks. Automation in Construction, 2018, 91, 273-283.	9.8	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.	3.7	139
7	Data fusion approaches for structural health monitoring and system identification: Past, present, and future. Structural Health Monitoring, 2020, 19, 552-586.	7.5	124
8	Deep Convolutional Neural Network for Structural Dynamic Response Estimation and System Identification. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	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.	4.7	118
10	A textureâ€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.	9.8	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.	3.5	98
12	Deep Learningâ€“Based Automated Detection of Sewer Defects in CCTV Videos. Journal of Computing in Civil Engineering, 2020, 34, .	4.7	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.	9.8	73
14	Deep learningâ€based multiâ€class damage detection for autonomous postâ€disaster reconnaissance. Structural Control and Health Monitoring, 2020, 27, e2507.	4.0	65
15	Multi-image stitching and scene reconstruction for evaluating defect evolution in structures. Structural Health Monitoring, 2011, 10, 643-657.	7.5	55
16	Inexpensive Multimodal Sensor Fusion System for Autonomous Data Acquisition of Road Surface Conditions. IEEE Sensors Journal, 2016, 16, 7731-7743.	4.7	45
17	Estimating Pavement Roughness by Fusing Color and Depth Data Obtained from an Inexpensive RGB-D Sensor. Sensors, 2019, 19, 1655.	3.8	37
18	An evaluation of image-based structural health monitoring using integrated unmanned aerial vehicle platform. Structural Control and Health Monitoring, 2019, 26, e2276.	4.0	34

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19	3D dynamic displacement-field measurement for structural health monitoring using inexpensive RGB-D based sensor. Smart Materials and Structures, 2017, 26, 125016.	3.5	33
20	Design of one-dimensional acoustic metamaterials using machine learning and cell concatenation. Structural and Multidisciplinary Optimization, 2021, 63, 2399-2423.	3.5	33
21	Computer-Aided Approach for Rapid Post-Event Visual Evaluation of a Building FaÃ§ade. Sensors, 2018, 18, 3017.	3.8	31
22	Parametric Performance Evaluation of Wavelet-Based Corrosion Detection Algorithms for Condition Assessment of Civil Infrastructure Systems. Journal of Computing in Civil Engineering, 2013, 27, 345-357.	4.7	30
23	Color and depth data fusion using an RGB-D sensor for inexpensive and contactless dynamic displacement-field measurement. Structural Control and Health Monitoring, 2017, 24, e2000.	4.0	26
24	ARF-Crack: rotation invariant deep fully convolutional network for pixel-level crack detection. Machine Vision and Applications, 2020, 31, 1.	2.7	24
25	Reconfigurable swarm robots for structural health monitoring: a brief review. International Journal of Intelligent Robotics and Applications, 2017, 1, 287-305.	2.8	23
26	NB-FCN: Real-Time Accurate Crack Detection in Inspection Videos Using Deep Fully Convolutional Network and Parametric Data Fusion. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5325-5334.	4.7	22
27	Automated Rutting Measurement Using an Inexpensive RGB-D Sensor Fusion Approach. Journal of Transportation Engineering Part B: Pavements, 2019, 145, 04018061.	1.5	13
28	Vision-based quantitative assessment of microcracks on reactor internal components of nuclear power plants. Structure and Infrastructure Engineering, 2017, 13, 1013-1026.	3.7	12
29	Wheat Spike Blast Image Classification Using Deep Convolutional Neural Networks. Frontiers in Plant Science, 2021, 12, 673505.	3.6	11
30	A physics-constrained deep learning based approach for acoustic inverse scattering problems. Mechanical Systems and Signal Processing, 2022, 164, 108190.	8.0	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. Journal of Computing in Civil Engineering, 2017, 31, .	4.7	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.	4.0	0