Hyunjun Kim

List of Publications by Year
in descending order

26 papers	898 citations	623188 14 h-index	580395 25 g-index
26 all docs	26 docs citations	26 times ranked	814 citing authors

#	ARTICLE	IF	CITATIONS
1	Crack and Noncrack Classification from Concrete Surface Images Using Machine Learning. Structural Health Monitoring, 2019, 18, 725-738.	4.3	175
2	Comparative analysis of image binarization methods for crack identification in concrete structures. Cement and Concrete Research, 2017, 99, 53-61.	4.6	144
3	Concrete Crack Identification Using a UAV Incorporating Hybrid Image Processing. Sensors, 2017, 17, 2052.	2.1	143
4	Principles and Applications of Ultrasonic-Based Nondestructive Methods for Self-Healing in Cementitious Materials. Materials, 2017, 10, 278.	1.3	60
5	Automated bridge component recognition from point clouds using deep learning. Structural Control and Health Monitoring, 2020, 27, e2591.	1.9	45
6	Flood fragility analysis for bridges with multiple failure modes. Advances in Mechanical Engineering, 2017, 9, 168781401769641.	0.8	33
7	Performance assessment method for crack repair in concrete using PZT-based electromechanical impedance technique. NDT and E International, 2019, 104, 90-97.	1.7	32
8	Prediction Model for Mechanical Properties of Lightweight Aggregate Concrete Using Artificial Neural Network. Materials, 2019, 12, 2678.	1.3	31
9	Automated peak picking using region-based convolutional neural network for operational modal analysis. Structural Control and Health Monitoring, 2019, 26, e2436.	1.9	31
10	Microstructural characteristics of sound absorbable porous cement-based materials by incorporating natural fibers and aluminum powder. Construction and Building Materials, 2020, 243, 118167.	3.2	29
11	Experimental validation of Kalman filter-based strain estimation in structures subjected to non-zero mean input. Smart Structures and Systems, 2015, 15, 489-503.	1.9	27
12	Automated concrete crack evaluation using stereo vision with two different focal lengths. Automation in Construction, 2022, 135, 104136.	4.8	23
13	Automated wireless monitoring system for cable tension forces using deep learning. Structural Health Monitoring, 2021, 20, 1805-1821.	4.3	16
14	Crack identification method for concrete structures considering angle of view using RGB-D camera-based sensor fusion. Structural Health Monitoring, 2021, 20, 500-512.	4.3	15
15	Data fusion of acceleration and angular velocity for improved model updating. Measurement: Journal of the International Measurement Confederation, 2016, 91, 239-250.	2.5	14
16	A new methodology development for flood fragility curve derivation considering structural deterioration for bridges. Smart Structures and Systems, 2016, 17, 149-165.	1.9	14
17	Characterization of Porous Cementitious Materials Using Microscopic Image Processing and X-ray CT Analysis. Materials, 2020, 13, 3105.	1.3	11
18	Automated Damage Localization and Quantification in Concrete Bridges Using Point Cloud-Based Surface-Fitting Strategy. Journal of Computing in Civil Engineering, 2021, 35, .	2.5	11

#	Article	IF	Citations
19	Long-term autogenous healing and re-healing performance in concrete: Evaluation using air-coupled surface-wave method. Construction and Building Materials, 2021, 307, 124939.	3.2	11
20	Surface-Wave Based Model for Estimation of Discontinuity Depth in Concrete. Sensors, 2018, 18, 2793.	2.1	9
21	Rheology-based determination of injectable grout fluidity for preplaced aggregate concrete using ultrasonic tomography. Construction and Building Materials, 2020, 260, 120447.	3.2	7
22	Monitoring of self-healing in concrete with micro-capsules using a combination of air-coupled surface wave and computer-vision techniques. Structural Health Monitoring, 2022, 21, 1661-1677.	4.3	7
23	Applicability of Diffuse Ultrasound to Evaluation of the Water Permeability and Chloride Ion Penetrability of Cracked Concrete. Sensors, 2018, 18, 4156.	2.1	5
24	Framework for characterizing the time-dependent volumetric properties of aerated cementitious material. Construction and Building Materials, 2021, 284, 122781.	3.2	4
25	Flood fragility analysis of bridge piers in consideration of debris impacts. Journal of the Korea Academia-Industrial Cooperation Society, 2016, 17, 325-331.	0.0	1
26	Multisensor fusion for system identification. , 2014, , .		0