Hyunjun Kim

List of Publications by Citations

25 papers	**468** citations	**11** h-index	**21** g-index
26 ext. papers	**673** ext. citations	**4.9** avg, IF	**4.34** L-index

#	Paper	IF	Citations
25	Comparative analysis of image binarization methods for crack identification in concrete structures. *Cement and Concrete Research*, **2017**, 99, 53-61	10.3	90
24	Crack and Noncrack Classification from Concrete Surface Images Using Machine Learning. *Structural Health Monitoring*, **2019**, 18, 725-738	4.4	88
23	Concrete Crack Identification Using a UAV Incorporating Hybrid Image Processing. *Sensors*, **2017**, 17,	3.8	84
22	Principles and Applications of Ultrasonic-Based Nondestructive Methods for Self-Healing in Cementitious Materials. *Materials*, **2017**, 10,	3.5	35
21	Flood fragility analysis for bridges with multiple failure modes. *Advances in Mechanical Engineering*, **2017**, 9, 168781401769641	1.2	22
20	Automated bridge component recognition from point clouds using deep learning. *Structural Control and Health Monitoring*, **2020**, 27, e2591	4.5	17
19	Experimental validation of Kalman filter-based strain estimation in structures subjected to non-zero mean input. *Smart Structures and Systems*, **2015**, 15, 489-503		17
18	Performance assessment method for crack repair in concrete using PZT-based electromechanical impedance technique. *NDT and E International*, **2019**, 104, 90-97	4.1	16
17	Prediction Model for Mechanical Properties of Lightweight Aggregate Concrete Using Artificial Neural Network. *Materials*, **2019**, 12,	3.5	15
16	Automated peak picking using region-based convolutional neural network for operational modal analysis. *Structural Control and Health Monitoring*, **2019**, 26, e2436	4.5	15
15	Data fusion of acceleration and angular velocity for improved model updating. *Measurement: Journal of the International Measurement Confederation*, **2016**, 91, 239-250	4.6	13
14	Microstructural characteristics of sound absorbable porous cement-based materials by incorporating natural fibers and aluminum powder. *Construction and Building Materials*, **2020**, 243, 118167	6.7	11
13	A new methodology development for flood fragility curve derivation considering structural deterioration for bridges. *Smart Structures and Systems*, **2016**, 17, 149-165		8
12	Characterization of Porous Cementitious Materials Using Microscopic Image Processing and X-ray CT Analysis. *Materials*, **2020**, 13,	3.5	6
11	Surface-Wave Based Model for Estimation of Discontinuity Depth in Concrete. *Sensors*, **2018**, 18,	3.8	6
10	Automated concrete crack evaluation using stereo vision with two different focal lengths. *Automation in Construction*, **2022**, 135, 104136	9.6	4
9	Rheology-based determination of injectable grout fluidity for preplaced aggregate concrete using ultrasonic tomography. *Construction and Building Materials*, **2020**, 260, 120447	6.7	4

LIST OF PUBLICATIONS

8	Crack identification method for concrete structures considering angle of view using RGB-D camera-based sensor fusion. *Structural Health Monitoring*, **2021**, 20, 500-512	4.4	4
7	Applicability of Diffuse Ultrasound to Evaluation of the Water Permeability and Chloride Ion Penetrability of Cracked Concrete. *Sensors*, **2018**, 18,	3.8	4
6	Long-term autogenous healing and re-healing performance in concrete: Evaluation using air-coupled surface-wave method. *Construction and Building Materials*, **2021**, 307, 124939	6.7	3
5	Automated wireless monitoring system for cable tension forces using deep learning. *Structural Health Monitoring*, **2020**, 147592172093583	4.4	3
4	Automated Damage Localization and Quantification in Concrete Bridges Using Point Cloud-Based Surface-Fitting Strategy. *Journal of Computing in Civil Engineering*, **2021**, 35, 04021028	5	2
3	Framework for characterizing the time-dependent volumetric properties of aerated cementitious material. *Construction and Building Materials*, **2021**, 284, 122781	6.7	1
2	Monitoring of self-healing in concrete with micro-capsules using a combination of air-coupled surface wave and computer-vision techniques. *Structural Health Monitoring*,147592172110410	4.4	0
1	Flood fragility analysis of bridge piers in consideration of debris impacts. *Journal of the Korea Academia-Industrial Cooperation Society*, **2016**, 17, 325-331		