David Lattanzi

List of Publications by Year
in descending order

28 papers	**783** citations	687220 **13** h-index	610775 **24** g-index
32 all docs	**32** docs citations	**32** times ranked	**683** citing authors

#	Article	IF	Citations
1	Review of Robotic Infrastructure Inspection Systems. Journal of Infrastructure Systems, 2017, 23, .	1.0	144
2	Unmanned aerial vehicle inspection of the Placer River Trail Bridge through image-based 3D modelling. Structure and Infrastructure Engineering, 2018, 14, 124-136.	2.0	143
3	Robust normal estimation and region growing segmentation of infrastructure 3D point cloud models. Advanced Engineering Informatics, 2017, 34, 1-16.	4.0	69
4	Robust Automated Concrete Damage Detection Algorithms for Field Applications. Journal of Computing in Civil Engineering, 2014, 28, 253-262.	2.5	54
5	Deformation Tracking in 3D Point Clouds Via Statistical Sampling of Direct Cloud-to-Cloud Distances. Journal of Nondestructive Evaluation, 2017, 36, 1.	1.1	48
6	Utilizing UAV and 3D Computer Vision for Visual Inspection of a Large Gravity Dam. Frontiers in Built Environment, 2018, 4, .	1.2	45
7	Hierarchical Dense Structure-from-Motion Reconstructions for Infrastructure Condition Assessment. Journal of Computing in Civil Engineering, 2017, 31, .	2.5	44
8	3D Scene Reconstruction for Robotic Bridge Inspection. Journal of Infrastructure Systems, 2015, 21, .	1.0	35
9	Damage Detection and Finite-Element Model Updating of Structural Components through Point Cloud Analysis. Journal of Aerospace Engineering, 2018, 31, .	0.8	34
10	Measures of the Seismic Vulnerability of Reinforced Concrete Buildings in Haiti. Earthquake Spectra, 2011, 27, 373-386.	1.6	30
11	Pixelâ€wise structural motion tracking from rectified repurposed videos. Structural Control and Health Monitoring, 2017, 24, e2009.	1.9	27
12	Bridge Column Maximum Drift Estimation via Computer Vision. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	26
13	Bridge Type Classification: Supervised Learning on a Modified NBI Data Set. Journal of Computing in Civil Engineering, 2017, 31, .	2.5	15
14	Full-Scale Highway Bridge Deformation Tracking via Photogrammetry and Remote Sensing. Remote Sensing, 2022, 14, 2767.	1.8	10
15	Extracting Structural Models through Computer Vision. , 2015, , .		7
16	Pavement Distress Recognition via Wavelet-Based Clustering of Smartphone Accelerometer Data. Journal of Computing in Civil Engineering, 2022, 36, .	2.5	7
17	Automatic Detection of Structural Deficiencies Using 4D Hue-Assisted Analysis of Color Point Clouds. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 197-205.	0.3	6
18	Combining convolutional neural networks with unsupervised learning for acoustic monitoring of robotic manufacturing facilities. Advances in Mechanical Engineering, 2021, 13, 168781402110090.	0.8	6

#	Article	IF	Citations
19	Color-space analytics for damage detection in 3D point clouds. Structure and Infrastructure Engineering, 2022, 18, 775-788.	2.0	6
20	Automated 3D Image-Based Section Loss Detection for Finite Element Model Updating. , 2016, , .		6
21	Stability of Large Reinforcing Column Cages during Temporary Construction Conditions. Practice Periodical on Structural Design and Construction, 2016, 21, .	0.7	3
22	Long-term monitoring of structures through point cloud analysis. Proceedings of SPIE, 2016, , .	0.8	3
23	Extraction of Structural System Designs from Topologies via Morphological Analysis and Artificial Intelligence. Designs, 2018, 2, 8.	1.3	3
24	Evaluation of highway bridge strength considering parapets. Bridge Structures, 2005, 1, 273-280.	0.2	2
25	Integrating 3D Computer Vision and Robotic Infrastructure Inspection. , 0, , .		2
26	Tracking Structural Deformations via Automated Sample-Based Point Cloud Analysis. , 2017, , .		1
27	Life-Cycle Modeling of Structural Defects via Computational Geometry and Time-Series Forecasting. Sensors, 2019, 19, 4571.	2.1	1
28	Repurposing video recordings for structure motion estimations. Proceedings of SPIE, 2016, , .	0.8	0