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Use of Image Analysis in Determination of Strain Distribution During Geosynthetic Tensile Testing

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#	Paper	IF	Citations
26	Identification of Materials from Construction Site Images Using Content Based Image Retrieval Techniques. 2005 , 1		4
25	Analysis of Factors Affecting Strain Distribution in Geosynthetics. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2006 , 132, 1-11	3.4	10
24	Construction site image retrieval based on material cluster recognition. <i>Advanced Engineering Informatics</i> , 2006 , 20, 443-452	7.4	46
23	Sensor-Enabled Geosynthetics: Use of Conducting Carbon Networks as Geosynthetic Sensors. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009 , 135, 863-874	3.4	28
22	Dynamic Tensile Testing of Kevlar [®] 49 Fabrics. <i>Journal of Materials in Civil Engineering</i> , 2011 , 23, 230-239	3	75
21	Non-contacting strain measurement for cement-based composites in dynamic tensile testing. <i>Cement and Concrete Composites</i> , 2012 , 34, 147-155	8.6	17
20	Laboratory evaluation of geocell-reinforced gravel subbase over poor subgrades. <i>Geosynthetics International</i> , 2013 , 20, 47-61	3.3	73
19	Material approaches to stretchable strain sensors. <i>ChemPhysChem</i> , 2015 , 16, 1155-63	3.2	126
18	Strain field determination using displacement gradient model and unified least-squares technique. <i>Scientific Research and Essays</i> , 2016 , 11, 80-89	0.7	
17	Centrifuge model study on the performance of fiber reinforced clay-based landfill covers subjected to flexural distress. <i>Applied Clay Science</i> , 2017 , 142, 173-184	5.2	8
16	Centrifuge Modeling and Digital Image Cross-Correlation Analysis of Geofiber-Reinforced Clay-Based Landfill Covers. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 04016076	3.4	7
15	Laboratory investigation of the durability of a new smart geosynthetic material. <i>Construction and Building Materials</i> , 2018 , 169, 28-33	6.7	10
14	Laboratory tests on the engineering properties of sensor-enabled geobelts (SEGB). <i>Geotextiles and Geomembranes</i> , 2018 , 46, 66-76	5.2	13
13	Large-strain tensile behaviour of geomembranes with defects using 3D digital image correlation. <i>Geosynthetics International</i> , 2018 , 25, 644-655	3.3	4
12	Use of Particle Image Velocimetry (PIV) technique to measure strains in geogrids. <i>E3S Web of Conferences</i> , 2019 , 92, 12007	0.5	4
11	Experiment-Based Synthetic Structural Analysis Combining Digital Image Processing and a Strong Form Meshfree Method. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8053	2.6	3
10	Influence of fibre morphology on the integrity of geofibre-reinforced soil barriers. <i>Geosynthetics International</i> , 2020 , 27, 460-475	3.3	3

9	A multi-camera based photogrammetric method for three-dimensional full-field displacement measurements of geosynthetics during tensile test. <i>Geotextiles and Geomembranes</i> , 2021 , 49, 1192-1210 ^{5.2}		1
8	Evaluating the Tensile Properties of Geogrids Using the Particle Image Velocimetry Technique. <i>Journal of Materials in Civil Engineering</i> , 2021 , 33, 04021328	3	0
7	A Review on Computer Vision Applied to Mechanical Tests in Search for Better Accuracy. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 265-281	0.4	2
6	Camera Calibration Using Neural Network for Image-Based Soil Deformation Measurement Systems. <i>Geotechnical Testing Journal</i> , 2008 , 31, 100729	1.3	2
5	Non-Contacting Strain Measurement in Dynamic Tensile Testing. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 209-216	0.3	1
4	Quantitative CT-Scan Imaging Approach in Determining The Air Voids and Aggregate Content in Concrete. <i>I-manager Journal on Civil Engineering</i> , 2014 , 4, 12-19	1.3	
3	A Digital Image Analysis Technique for Improved Strain Measurement in Geosynthetic Tensile Testing. <i>Geotechnical Testing Journal</i> , 2022 , 45, 20210047	1.3	
2	Mechanical properties of PVC geomembrane under uniaxial tension based on non-contact measurement. <i>Geosynthetics International</i> , 1-49	3.3	1
1	Monitoring of the Variation in Pore Sizes of Woven Geotextiles with Uniaxial Tensile Strain. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 374	2.6	1