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Comparing Two Methods of Surface Change Detection on an Evolving Thermokarst Using High-Temporal-Frequency Terrestrial Laser Scanning, Selawik River, Alaska

Theodore B. Barnhart * and Benjamin T. Crosby

Department of Geosciences, Idaho State University, 921 South 8th Avenue STOP 8072, Pocatello, ID 83209, USA; E-Mail: crosby@isu.edu

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The first case demonstrates the use of the method to research the registration accuracy and find occlusions between two scans. The two other cases demonstrate the change detection and deformation analysis. The results are validated using total station and joint meter measurements. Subject .

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Since laser scanning started to mature as a surveying methodology, people have tried to identify changes in a scene repeatedly sampled by LIDAR surveys. Actually, change detection, deformation analysis, and structural monitoring are different terminology for strongly related topics. Change detection and deformation analysis using static and ...

The number and placement of terrestrial laser scans were also found to influence the derived DEMs. Furthermore, we applied change detection using two ALS data captures over a four year period and four TLS field surveys over an eight month period.

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Change-detection using point clouds and terrestrial images contributes in a more general case, since 3D point clouds can be derived directly from 3D models. In summary, this paper proposes a new approach for geometric change detection based on MLS point clouds taken in an earlier epoch and terrestrial

images in a later epoch, or vice versa. 3D Change Detection at Street Level Using Mobile Laser ... Terrestrial laser scanners (TLS) allow large and complex landforms to be rapidly surveyed at previously unattainable point densities. Many change detection methods have been employed to make use of these rich data sets, including cloud to mesh (C2M) comparisons and Multiscale Model to Model Cloud Comparison (M3C2). [PDF] Comparing Two Methods of Surface Change Detection on ... Surveying techniques such as Terrestrial Laser Scanner have recently been used to measure surface changes via 3D point cloud (PC) comparison. Two types of approaches have been pursued: 3D tracking of homologous parts of the surface to compute a displacement field, and distance calculation. Accurate 3D comparison of complex topography with ... Terrestrial laser scanning (TLS) can be a useful tool in characterizing the changes over time on rock slopes. By performing change detection using multi-epoch, sequential scans, individual rockfall events can be identified on the slope, including their locations and volumes, as demonstrated by Rosser et al. (2007), Lato et al. (2009), Lim et al. Effects of sampling interval on the frequency - magnitude ... "Terrestrial Laser Scanning and a Degenerated Cylinder Model to Determine Gross Morphological Change of Cadavers Under Conditions of Natural Decomposition." Forensic Science International 241 (August 2014): 35-45. doi: 10.1016/j.forsciint.2014.05.001 . Papers | NCALM Change detection and assessment of fire-damaged concrete using terrestrial laser scanning. Mukupa, Wallace and Roberts, Gethin Wyn and Hancock, Craig M. and Al-Manasir, Khalil (2016) Change detection and

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