MAJOR REVIEW 1

1. Comment: Moderate English changes required. [...] the English of the paper should be improved. A few sentences are long and convoluted.

The long and convoluted sentences have been moderated and simplified (e.g. Section 1, Page 1, Line 29-31, Line 34-36; Section 3, Page 9, Line 368-375).

2. Comment: The contribution of the paper with respect to the state of the art is unclear. This is not the first paper which uses a TLS to compute deformation of a bridge under load. The contribution must be pointed out explicitly in the introduction.

Some related work is cited in the introduction, and then again at the end of each subsection in Section 3. The relation of the relate work to this paper is unclear. The paper should be compared explicitly with the related work. Are they using a method from the cited paper? Are they refuting the cited results? Are they confirming them? Are they doing something better or different?

The lack of part of introduction has been supplemented by adding paragraph: Section 1, Page 3, Line 111-141, Line 146-150.

The discussion with related works was also detailed in Section 3, Page 13, Line 435-448; Page 15, Line 480-484.

3. Comment: In Section 2.4, the point cloud pre-processing method is described. Standard point cloud filters from CloudCompare and Geomagic Wrap software were used. The authors should expand the description of the filters and report their configuration parameters, to allow others to reproduce the results, even if/when the software becomes unavailable.

Similarly, in Sections 3.2 and 3.3 point cloud and mesh differentiation are carried out, but the method is not described.

To describe the filtration algorithms their configuration parameters were added (Section 2, Page 7 Line 268-284).

The description of the mesh surface generation algorithm has been supplemented, their configuration parameters have been added (Section 2, Page 7, 8, Line 291-301).

The description of the point cloud and mesh differentiation is contained in Section 2, Page 8, Line 309-316).