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Comment

## ***Interactive comment on “A Novel Strategy for landslide displacement and its direction monitoring” by Z.-W. Zhu et al.***

**Anonymous Referee #4**

Received and published: 4 April 2014

Although the title implies a strategy to monitor the displacement and direction of landslides, the article itself is focusing on the development and testing of an optical fiber transducer. Thus, the title is misleading and should definitely be changed. The text requires a careful proof reading and even some rewriting in certain parts. The language should be revised and the use of personal pronouns should be avoided.

The organization of the chapters was unclear and vague, especially chapter 2 and 3. Instead of defining a chapter as “Double-shearing test” and “Study on the fourth-generation transducer”, a main chapter titled as “Methodology” can be added. This “Methodology” chapter may include descriptions of the third and fourth generation transducers, the test setup and experimental program. The following chapter “Results & Discussion” may present the results of the single and double shearing tests and also

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the discussion part.

The references, descriptions, advantages and disadvantages of the first three generations should be included in the text. A table containing this information might be useful. Also, a drawing or a photo of the test setup might be useful. The possibility and efficiency of the use of these transducers in the field should be also considered.

Page 6850 Line 21: monitorslides should be monitor landslides.

Page 6850 Line 21: It is better to call the GPS as Global Positioning System instead of Global Position System.

Page 6850 Line 26: The name “optical time domain reflectometry” should be written before the use of abbreviation (OTDR).

Page 6851 Line 27: “other significant findings” should be written clearly.

Page 6857 Lines 15-20: Please consider revising that part

Page 6859 Line 20: The title of section 5.6 can be “Further enhancements for the performance of the optical fiber transducer”

Page 6866 Table 4: It is very hard to read. Please increase the font size

Page 6867 Table 5: Please correct the units of the parameters (Determination of the loading – Unit Price)

Page 6871 Figure 4: “forth-generation transducer” should be “fourth generation transducer”

Figures 2 – 3 – 6 – 7 are not clearly visible.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 1, 6849, 2013.

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