

Prof. Tadeusz A. Przylibski
Wrocław University of Technology
Faculty of Geoengineering, Mining and Geology
Institute of Mining Engineering
Division of Geology and Mineral Waters
Wybrzeże S. Wyspiańskiego 27
50-370 WROCLAW
POLAND
e-mail: Tadeusz.Przylibski@pwr.edu.pl

Wrocław, 2014.04.21.

**REVIEW
OF THE MANUSCRIPT ENTITLED**

*Deformation information system for facilitating studies of mining ground deformations –
development and applications*

1. Comments to the Editor:

I found this manuscript interesting and suitable for publication in the Natural Hazards and Earth System Sciences. There is not many science inside the manuscript, but as work of applicable character one may expect a paper written in similar style. Submitted manuscript describes the concept of deformation information system (DIS). This system enables studying ground deformations being the effect of underground mining activity. As the example authors very shortly and concise describe Wałbrzych mining region located in south-western part of Poland. In my opinion the manuscript is written clear, and all the figures and tables are suitable and helpful. I may suggest only minor revision according to my comments, advice and suggestions.

2. Comments to the Authors:

I found this manuscript interesting and suitable for publication in the Natural Hazards and Earth System Sciences. There is not many science inside the manuscript, but as work of applicable character one may expect a paper written in similar style. In my opinion there is only one weak point of the manuscript, and it should be removed (the manuscript should be corrected) before publishing. I found also few very little faults of technical (editorial) character. I may suggest only minor revision according to my comments, advice and

suggestions. Then, I may with pleasure recommend reviewed manuscript to be published in the Natural Hazards and Earth System Sciences journal.

The main weakness of the manuscript, in my opinion, is lack of further part of discussion. As the one more paragraph of the discussion there should be listed and certainly strongly emphasized all the advantages of proposed DIS, specially in comparison to other methods applied up to now. I think a lot of readers will want to know what kind of precisely defined advantages offers described DIS in relation to other methods being applied up to now. Is it possible to do something (and if so, what?) faster? Easier? Does it offer more precise and accurate results of calculation something? Does it enable to get some special 3D views, what was not possible by the applying another tools? There may be a lot of similar questions to be discussed. As the consequence of this enlarged discussion it will be also necessary to add some resulting sentences to the conclusions.

I have noticed also some small technical, editorial faults, as follow:

1. The figure no. 8 is cited in the text on page 4807 between citations of figure no. 2 and 3. So, consequently it should have the no. 3, and all next figures should be renumbered (all should have the number +1). Consequently, as the example of 3D visualization, cited in line 25 on the page 4812 you may provide another one – additional picture, and this picture should be numbered as 9 and again all next figures should be renumbered (all should have the number +1).
2. Line 8 on page 4806. Authors cite here the paper of Blachowski (2008). Unfortunately it is written in Polish, so it is rather not possible to understand by broad party of the NHESS readers. I can understand this is maybe not easy to solve this problem, but I suggest to add maybe other literature written in English or supplement the manuscript with short Appendix providing broader information from cited publication. I believe one page long Appendix will be suitable.
3. Line 11 on page 4808. The point ending the sentence is written after space. You should remove the space before the point and add the space after the point and before the next sentence starting from “Net framework...”.
4. Caption to the figure no. 11. Last word of the caption is “pilla”, but should be “pillar” – the letter “r” is missing. Please correct this word.

Tadeusz Przylibski