

Interactive comment on “Comprehensive evaluation of high rocky slope safety through an integrated analytic hierarchy process and extension matter model” by H. Z. Su et al.

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This paper focuses on the evaluation problem of slope safety. Some mathematical methods, namely Analytic Hierarchy Process, Matter Element Analysis, Information Entropy, are combined to build the evaluation index system, determine the index weight and establish the evaluation model. An actual engineering is appraised by the proposed method. The topic is overall within the major scopes of Natural Hazards and Earth System Sciences (NHES). The paper presents an interesting approach. It implements the comprehensive analysis for the definite factors and the indefinite factors on slope safety. The proposed framework for analysis and evaluation of slope safety is practical. It is recommended that the authors consider the following points for clari-

C1

fication and completeness before their paper could be considered for publication: Response: Thank you very much for your evaluation and approval for our manuscript. We would like to express our great appreciation to you. We have tried our best to improve the manuscript.

(1) The title is ambiguous. Response: We really appreciate your comment. We have revised the ambiguous title to be clear and accurate. The new title is ‘An approach using multi-factor combination to evaluate high rocky slope safety’.

(2) English needs to be checked in preparing the final manuscript. Response: All the authors have checked the English carefully to void some errors. Meanwhile, we have asked several colleagues who are skilled authors of English language papers to check the paper.

(3) P15: In Section ‘5. Case study’, it is suggested to give more details on the current situation of analyzed slope. Response: Your suggestions are appreciative. We have realized this problem as other reviewers also mentioned it. More details have been added to the current situation of analyzed slope in the manuscript. For instance, the maximum cumulative displacement amount is about 1500mm for one year. In the In Section5, Case study, we have given the detailed content for the current situation of analyzed slope. We hope that our modifications could be reasonable for your future review.

Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2015-336/nhess-2015-336-AC3-supplement.pdf>

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C2