A Method to Predict the Change of the Water Level and to Evaluate the Stability of the Slope Surface Layer Considering the Topography

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In order to secure the train operation, it is necessary to identify beforehand the area where the danger of failure of the slope surface layer along railways is high at the rainfall. The change of the water level of the surface layer at the rainfall has a big influence on the failure. It is important to predict the change of the water level of the slope surface layer for evaluating its stability. We have developed a method to predict the change of the water level and to evaluate the stability of the slope surface layer considering the topography. In this paper, we described the concept of the developed method, and examples using this model.