

Hazard Mapping Method about Rockfall using Digital Elevation Model

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Because of uncertainty of the relation between rockfalls and external forces caused by the events such as rain-falls, earthquakes, melting snow, it is difficult to predict the occurrence of rockfall. In order to take measures against rockfall disasters, it is necessary to make clear distribution of the rock-outcrops, the possibility of falling, a falling path, and reachability to the railway. But it is difficult to obtain these matters with respect to all the rock outcrops because there are too many natural slopes adjacent to the railways to survey. Here, we introduce a method of hazard map creation about rockfalls using Digital Elevation Models. By this method, it is possible to know the risk of rockfall extensively along the railway.