

Easy Selection of Unstable Slopes Based on Topographical and Geological Conditions

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The occurrence of the land slide is affected by topographical and geological conditions. These conditions have been reported in previous studies. However, the selection of unstable slopes based on these conditions needs professional knowledge and detailed surveys. Therefore, the authors considered a method for selecting slopes in danger of a land slide easily based on topographical and geological conditions. First, the authors organized topographical and geological conditions involved in land slides showed in previous studies. Second, the authors obtained topographical and geological conditions in areas where a number of land slides recently occurred, and selected conditions involved in land slides using statistical methods. Finally, the authors suggested points for the selection of slopes with these conditions and proposed a method of selecting unstable slopes easily.