

Suitable and unsuitable topographic conditions for the strip road construction obtained by the empirical knowledge

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The purpose of this study is to clarify the suitable and unsuitable topographic conditions for strip road construction from the empirical knowledge. For this purpose, the rough set analysis was introduced and the conditions obtained by this theory applied to 2 actual strip roads. As a result, about 200 of suitable and unsuitable topographical conditions were obtained. In their conditions, 27 suitable conditions and 6 unsuitable conditions were decided on the most important conditions. 2 actual strip roads were used to verify the importance of the 6 unsuitable conditions. The ratio of the strip road length constructed on the 6 unsuitable conditions and the total road length was 0 %. This result showed that the 6 unsuitable conditions were valid.

key word: strip road, rough set analysis, topographic condition