## Geomorphological analysis by dip of slope, positive openess, negative openess and curvature

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1.introduction

Geomorphological analysis by reading air photoes varies in individual, so quantification of geomorphical interpretation has been studied by many researchers. In this poster, we presents a technique to adopt openess filter and red relief image map's technique to geomorphic feature segmentation.

2.effects of operator's type and size

The parameters are calculated and compared in various type and size of neighbourhood. Focal operators are as follows: slope,aspect, laplacian,variance,positive and negative openess, plan and profile curvature, and so on.These parameter's scale dependency shows fractal behavior and appearance of openess value are robust to size changing.

3.automatic geomorphical segmentation

To discuss those problem, we will show some examples of prototype of automatic geomorphical segmentation by openness and various size of spatial filters.