

## Development of the CS (Curvature and Slope) topographical map

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For the topographical interpretation, we developed CS (Curvature and Slope) topographical map to visualize micro-relief that affect landslide susceptibility in mountain area. The CS topographical map represents valleys by blue color and ridges by red color, simultaneously steep slopes are assigned to dark color. We produced CS topographical map for the entire area of Nagano Prefecture from airborne LiDAR DEM and conducted many micro landslide such as linear depressions in landslide blocks, valley head hollows were recognized, and they were confirmed by subsequent field survey. The CS topographical map provides us with many information about distribution of micro-relief in mountain area, and it may be a prominent tool for evaluating landslide susceptibility.

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