

## A full automatic approach to create rock drawing analytical

Tobias Dahinden  
Institute of Cartography  
Swiss Federal Institute of Technology  
8093 Zurich  
dahinden@carto.net

### Abstract:

Rock drawing consists either of fill hachures, shadow hachures, slope hachures, ridge lines, color tone, relief, texture, contour lines, orthophotos or molehills and its combination. [Dahinden, 2002]

We investigated several methods to create this components of rock drawing (except orthophoto and molehill) and how to combine the components.

There are a lot of approaches to create a shades relief or contour lines in literature. But there are only a few ap

proaches to create ridge lines [Hurni, 1995] or hachures [Dahinden, 2000], [Buchin et al. 2004]. We investigated several methods

of computer graphics to create ridges and hachures. All approaches use non-interactive methods to create the components.

The presentation contains a short review of existing methods as well as some (maybe) useful results of our developments.