

# **Filtration of Airborne Laserscanning Data**

## **Abstract**

The diploma thesis deals with automatized area classification with different surfaces in rocky towns. These areas are input into Airborne Laser-Scanning data filtration, where each of the areas is filtered with different parameters. The reason for this approach is the extreme height variety and dense vegetation typical for rocky towns, which causes the inadequacy of most common filtration algorithms applied with the same set of parameters for whole area. The methodic proposed by us consists of splitting the area of interest into three parts: Residential area, rocky area and area of vegetation (i.e. area that doesn't contain rocks or buildings). Each of these has special parameters applied during the following filtration, which reflect its characteristics.

## **Key words:**

laser scanning, DTM, rocky towns, area based filtration