BA/MA/SA/Group/Lab:

**Tesselating Switzerland of the Past**

Aerial pictures are a fascinating visualisation of countries and regions, especially as we do not usually perceive our environment in this way. The first aerial picture was taken in the 18th century. Nowadays, many services make use of them. Google Earth, for example, offers a view of the world in satellite imagery and aerial photography.

Switzerland’s federal geoportal released old aerial pictures of Switzerland with corresponding location data. Former work at our group has shown that by overlaying pictures it is possible to create a time lapse video or an interactive map which shows the evolution of Switzerland over the last centuries. However, to get visually appealing results, the image stitching has to be enhanced. The goal of this project is to improve the current implementation with a different image stitching method. A first idea would be to simply stretch and rotate local image patches until two pictures fit together. The end result should be an application ready for public release.

Of course, we are also interested to hear your own ideas what we could do with these pictures. Do not hesitate contacting us!

**Requirements:** Creative thinking and advanced programming skills are advantageous to successfully work on this topic. The student should be able to work independently!

**Interested? Please contact us for more details!**

**Contact**

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