Interactive 2D-3D Image Conversion on Mobile Devices

Goal: An Android app will be developed that can generate a stereo pair from a single image

Description:
An Android app will be developed that is designed to generate stereo pairs from single images. The system will consist of an interactive segmentation step followed by stereo view rendering step using several simple hole handling techniques. The stereo pair will then be shown to the user either on a regular Android phone in anaglyph 3D or on a phone with an autostereoscopic display such as HTC Evo 3D.


Requirements / Tools:
Required: Java or C++, some experience with image processing
Recommended: Experience with Android app development and with OpenCV

Supervisor:
Yagiz Aksoy
www.inf.ethz.ch/personal/aksoyy