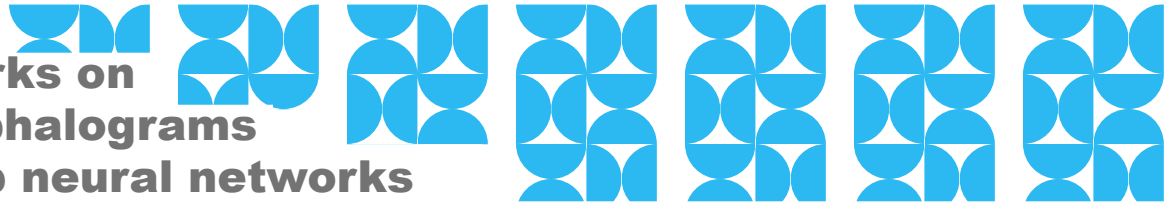


Goal:

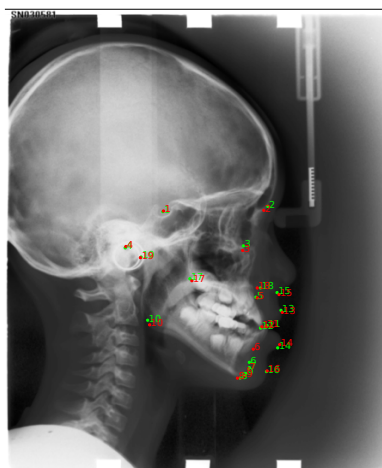
Detection
of landmarks on
lateral cephalograms
using deep neural networks



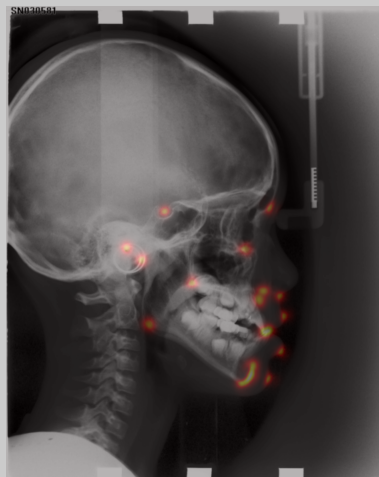
Isotropic Gaussian Heatmaps



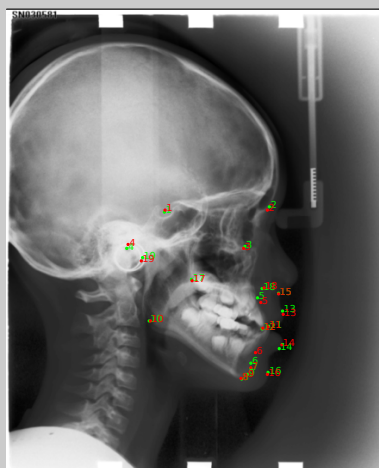
U-Net



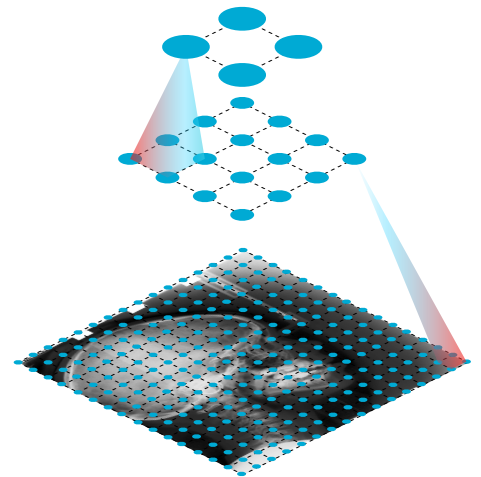
Contour-Hugging Heatmaps



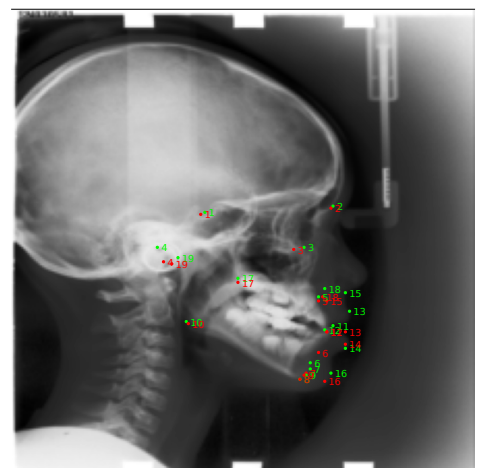
U-Net



Hierarchical Graph Representation



EchoGlad



Visualisation of the **predictions (red)** compared to the **ground truth (green)**

Results:

Out of the three proposed solutions, combination of the **U-Net and Contour-Hugging heatmaps** was the best one. Achieving mean radial error of 1.8 mm and the success detection rate of 70.21% with 2 mm threshold.