

KW41 NiftyNet

- Fix elastic deformation to consider different 3d image shapes -> pushed to github
- ConvNets do not converge when using the full CT:
 - Solution after meeting with Carl:
 - gendice should be correct (just compensates for size differences but not for missing labels inside patch)
 - more and sampling with smaller patch size, or rescale approach as solution for now

Bug!? windows_sampling is not in the correct section inside the *.ini files so its not recognized if changed (must be in [Network] section -> report that)

- GDSC stuck at 1.0
- Dice at 0.875

Ideas to fix:

- use tensorboard for debug
- dive deeper into understanding tensorflow and tensorboard
eg: https://www.youtube.com/watch?v=mWl45NkFBOc&list=PLOU2XLYxmsIKGc_NBoIhTn2Qhraj53cv
- use weighted sampling to prioritize foreground when sampling (done by creating a weightmap set all foregroundpix to one in a preproc step using otsu - must be a float img!!!)
- try to get good results by just segmenting a smaller patch containing parotidg L/R and mandible
- maybe use resized to train a first rough network!!!??

