

Segmentação 3D utilizando Deep Learning/CNN

Prof. MSc. Roberto Ivo

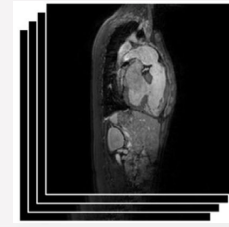
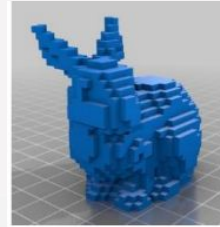
robertoivo@lapisco.ifce.edu.br



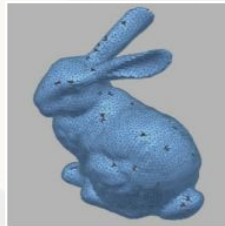
Tipos de dados 3D



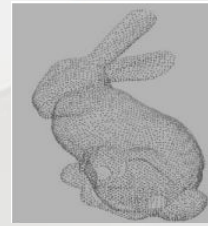
RGB-D



Voxel



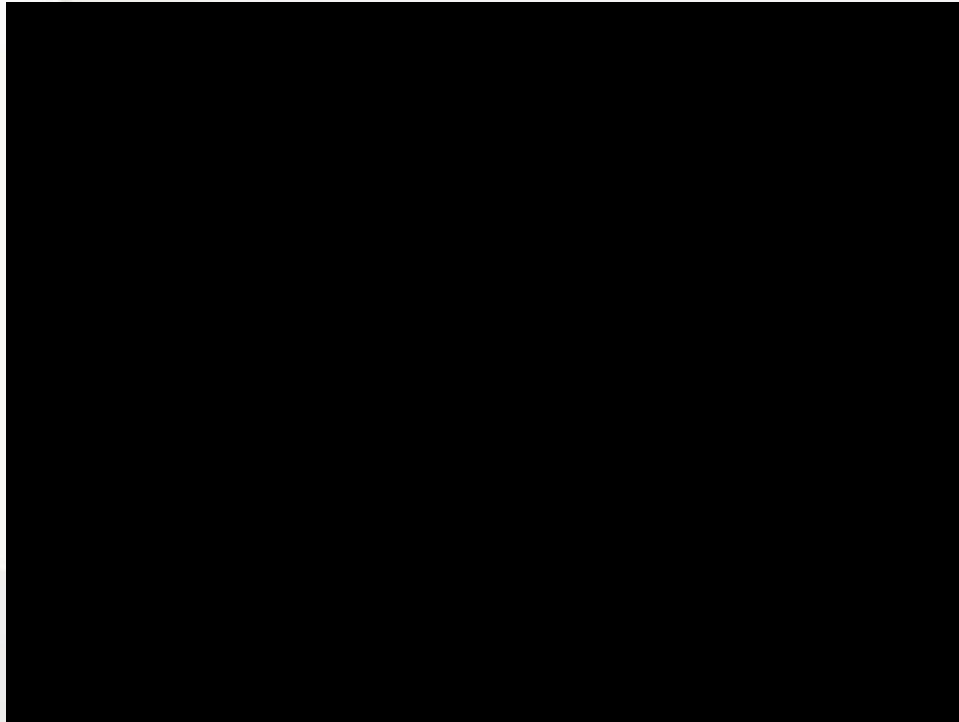
Mesh



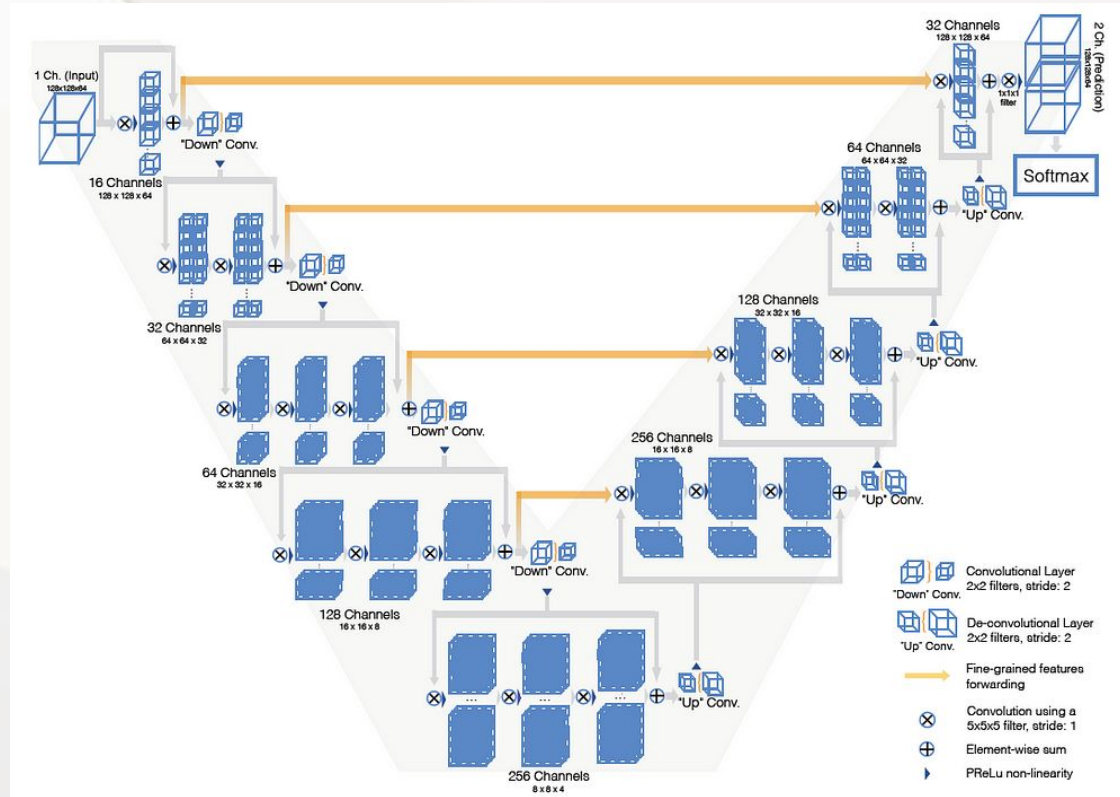
Cloud Points



Convolução 3D



V-NET





Review

Cascaded Volumetric Fully Convolutional Networks for Whole-Heart and Great Vessel 3D segmentation

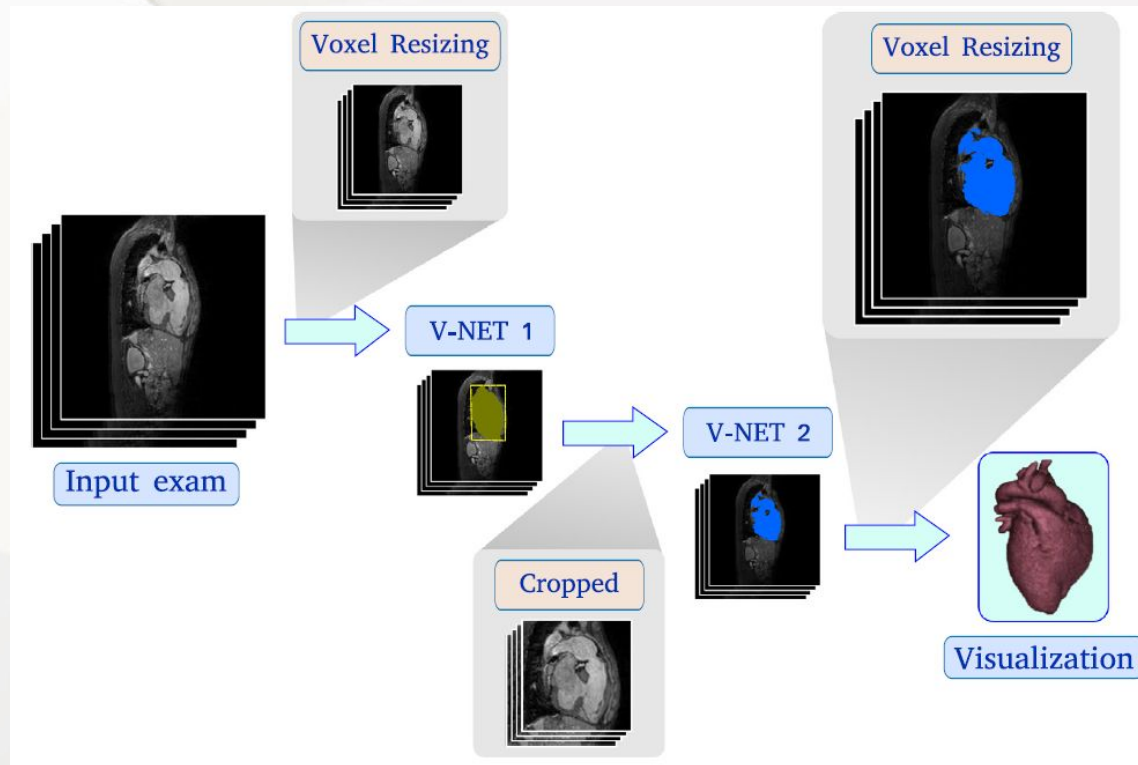
Journal: **Future Generation Computer Systems**

Autores: Tao Han, **Roberto F. Ivo**, Douglas de A. Rodrigues, Solon A. Peixoto, Victor Hugo C. de Albuquerque, Pedro P. Rebouças Filho.

DOI: <https://doi.org/10.1016/j.future.2020.02.055>

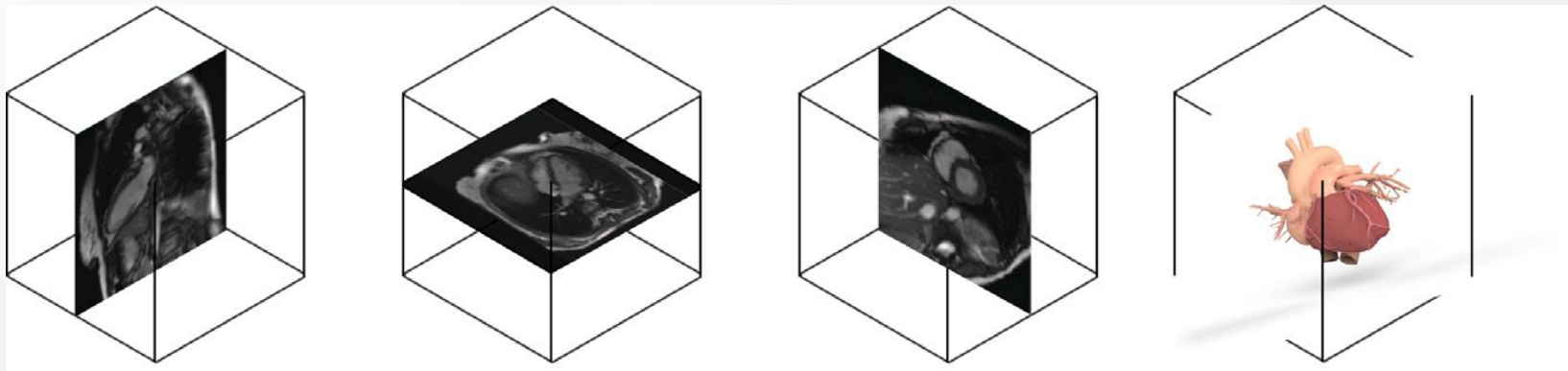


Metodologia



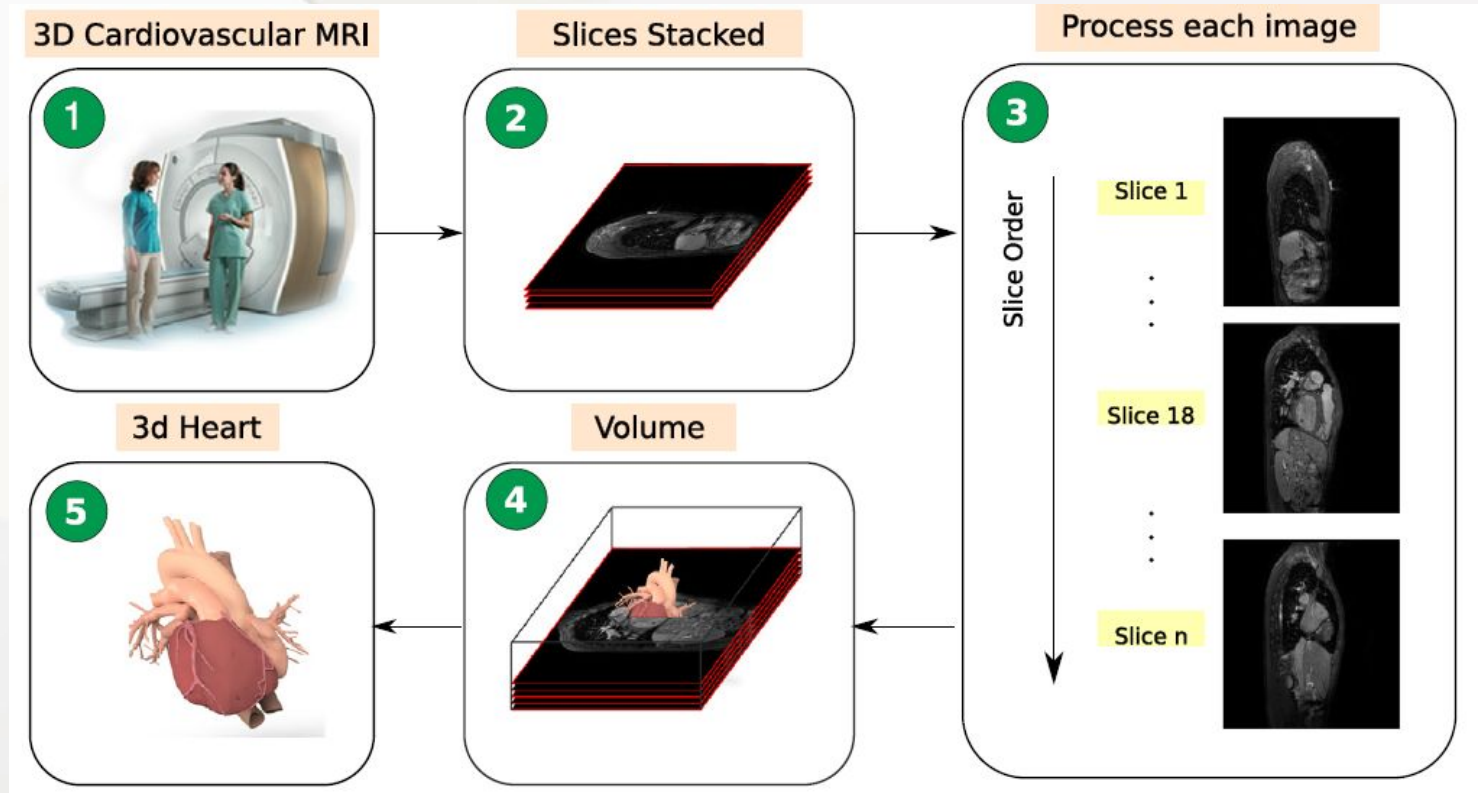


Visualização anatômica



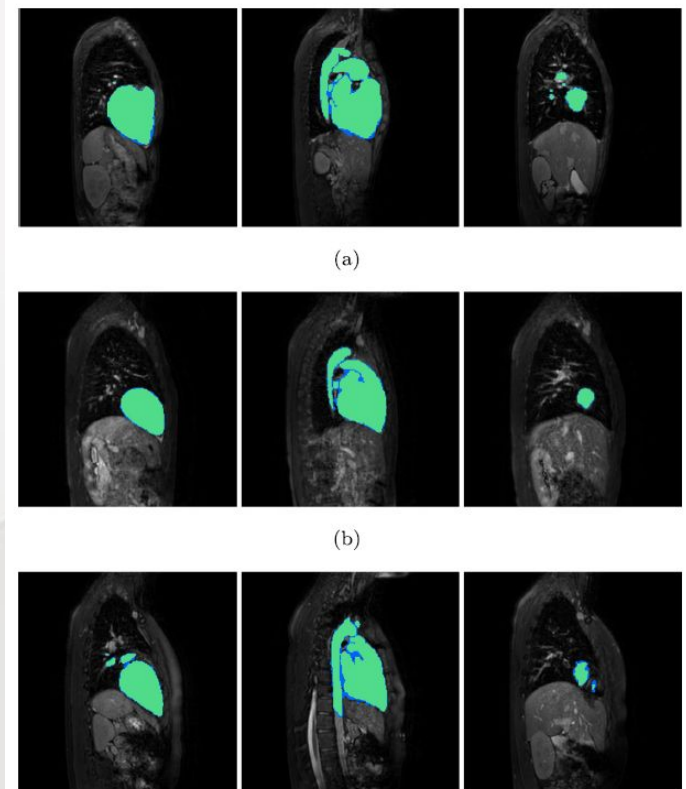
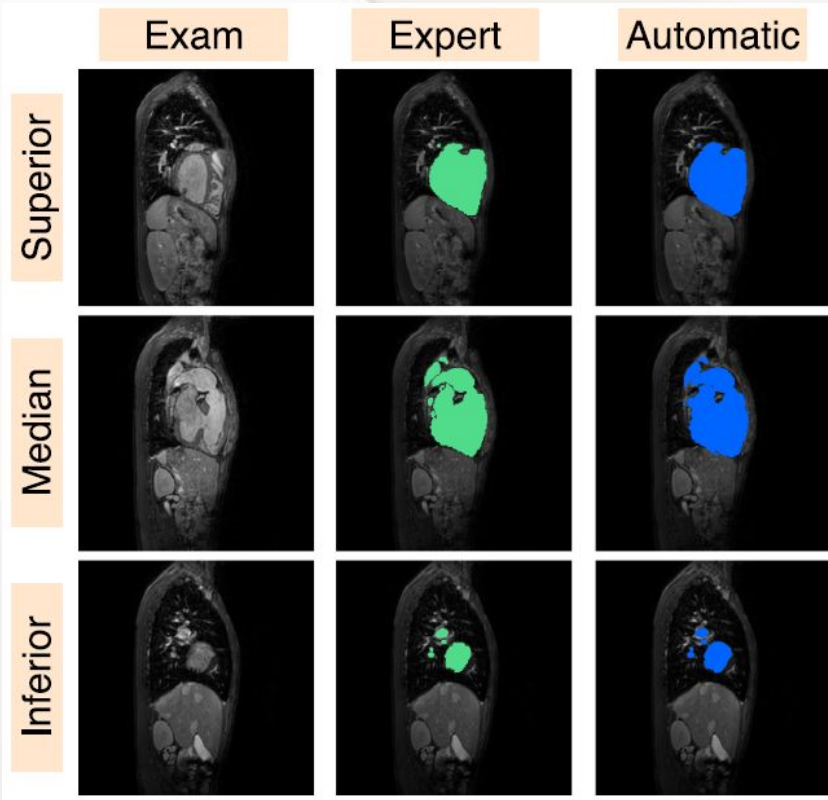


Visualização anatômica



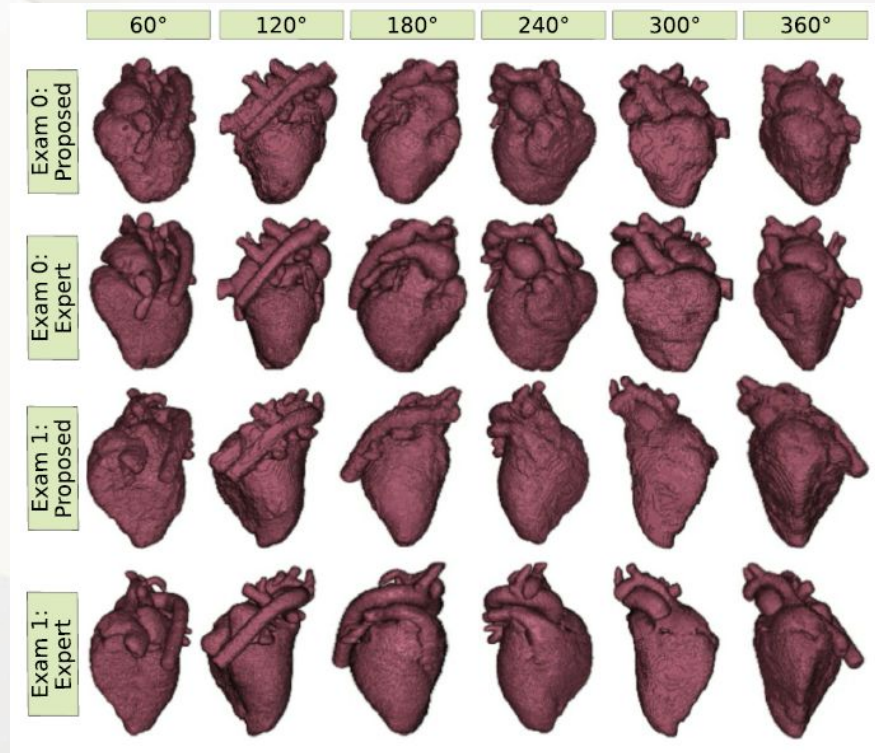


Resultados





Resultados





Desafio

<https://paperswithcode.com/task/3d-semantic-segmentation>