

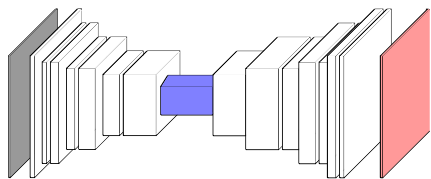
1. Data acquisition and preprocessing

Raw .cine video files

- Save video into .npz files
- Manual labels
- Data augmentation

Input image

Segmentation map



3. Trained FCN

Grid search and model comparison

4. Test data evaluation

Generate segmentation maps for every frame

2. Training phase

Architecture proposals:

- U-Net
- DeconvNet
- MultiResUnet

Loss:  
Jaccard distance

$$1 - \frac{|A \cap B|}{|A \cup B|}$$

5. Postprocessing

Calculate relevant features