Inductive bias on networks

- Scale Invariant [Ghosh and Gupta, 2019]
- Rotation Invariant [Hong et al., 2022, Kim et al., 2020]
- viewpoint invariance [De Sousa Ribeiro et al., 2020]

Complex and fixed modification of the architecture for classification tasks

Improving the representation in the skip connections

- Pai-Net [Wang et al., 2021]
- Unet++ [Zhou et al., 2018a]
- DRU-net [Jafari et al., 2020]
- Sharp U-Net [Zunair and Hamza, 2021]
- MultiResUNet [Ibt, 2020]

Significantly increasing the complexity of the network

Medical Image Variability

Ensemble methods and modified training expose varied data views to handle variability

- Multiple Networks [Dushatskiy et al., 2022]
- Texture invariant [Kim and Byun, 2020, Wang and Li, 2023]
- Rotation invariant [Kang, 2020]

Multiple networks increase complexity. Generating certain desirable invariances is infeasible from increasing the data.