

Regularization techniques

- L1 and L2 regularization [Goodfellow et al., 2016]
- Batch normalization [Goodfellow et al., 2016]
- Dropout [Chen et al., 2020b]
- Early stopping [Goodfellow et al., 2016]
- Transfer learning [Alzubaidi et al., 2020]
- Data Augmentation [Shorten and Khoshgoftaar, 2019]

**Reduction of complexity
decreases the capability of
the models to learn common
dependencies**

**Small Sample
Size and
Overfitting**

Architecture enhancement

- Cosine-CKN [Mohammadnia-Qaraei et al., 2018]
- ConvRFF with Bayes [Wang et al., 2021]
- ConvRFF Bayes and bypass [Wang et al., 2021]
- RFF U-Net-like [Jimenez-Castaño et al., 2021]

**Lack of semantic segmentation
models**