Regularization

Image-level

1. Cutmix for segmentation: Consistency regularization and CutMix for semi-supervised semantic segmentation [PDF]
2. ♥♥♥♥♥CutMix: Regularization Strategy to Train Strong Classifiers with Localizable Features [PDF][CODE]
3. ♥♥♥Semi-Supervised and Task-Driven Data Augmentation [IPMI2019][CODE] : using 2 GANs generates fake images
4. ♥♥♥mixup: Beyond Empirical Risk Minimization [ICLR2018] [CODE]: simple combine two images and their labels
5. ♥♥♥Data augmentation using learned transforms for one-shot medical image segmentation [CVPR2019] MRI data, data augmentation wrapping, spatial and appearance transform

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Feature-level

1. ♥♥♥♥Manifold Mixup: Better Representations by Interpolating Hidden States [ICML19]

Network Regularization

1. ♥♥♥ Regularizing Deep Networks by Modeling and Predicting Label Structure [CVPR2018] papner code: combining hyper column feature segmentation network with auto encoder. Use encoder or decoder to regularise the segmentation network. Good paper, not work