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Weighting Training Images by Maximizing Distribution Similarity for Supervised Segmentation Across Scanners

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**Highlights**

- We present a transfer-learning approach to image segmentation
- Training images are given a weight which is used in a weighted classifier
- Weights maximize feature distribution similarity between training and target data
- In experiments on brain MRI, weighting improved segmentation results by up to 42%
- This method is useful for heterogeneous image data, e.g. in multi-center studies

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