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Automatic segmentation variability estimation with segmentation priors

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Highlights

- Formal framework and method for segmentation variability estimation without ground truth
- Segmentation variability estimation with segmentation priors and multivariate sensitivity analysis
- First study to establish the reference manual delineation variability for 11 radiologists, 4 structures and 3,193 manual delineations.
- Experimental results shows that the estimated segmentation variability is highly correlated with the manual delineation data.
- segmentation variability estimation with no ground truth provides a valuable tool for segmentation quality evaluation

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