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Variational inference for medical image segmentation

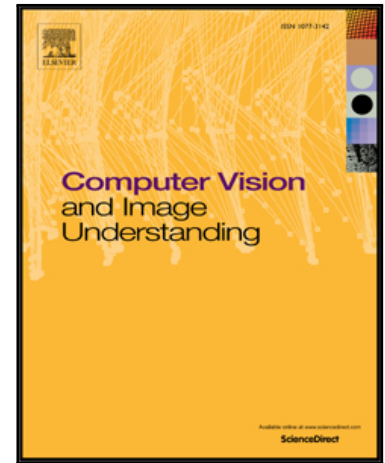
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Highlights

- We present a generalization of the brain segmentation algorithm implemented in the SPM software, which exploits variational Bayesian inference
- We test the accuracy and robustness of our method in segmenting brain tissues using synthetic and real MRI data
- We introduce an empirical Bayes framework to learn tissue specific intensity priors from large data sets

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