

## **MRI-guided PET Reconstruction with Adaptive Prior Strength**

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MRI-guided PET reconstruction can potentially reduce noise and increase spatial resolution. However, the balance between measured data and prior information usually requires manual tuning depending on the measured statistics and desired image quality. This work presents an adaptive method of MRI-guided PET reconstruction which does not require manual tuning, and is robust against a wide range of statistics and different tracer uptake distributions.

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