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Non Local Spatial and Angular Matching : Enabling higher spatial resolution diffusion MRI datasets through adaptive denoising

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Highlights

- A new spatially adaptive denoising algorithm using the 4D profile of diffusion MRI.
- Usable on all datasets from major scanner vendors without added acquisition time.
- Extensive comparisons with three other algorithms on synthetic and *in – vivo* data.
- Reduces the bias on metrics such as FA and angular error due to high noise levels.
- Improved *in – vivo* tractography on a high resolution dataset with our algorithm.

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