Simulated DW-MRI Brain Data Sets for Quantitative Evaluation of Estimated Fiber Orientations

RRID:SCR_014168
Type: Tool

Proper Citation

Simulated DW-MRI Brain Data Sets for Quantitative Evaluation of Estimated Fiber Orientations (RRID:SCR_014168)

Resource Information

URL: http://www.nitrc.org/projects/sim_dwi_brain/

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Description: This resource provides simulated DW-MRI brain images and quantitative tools for evaluating the performance of diffusion analysis methods in terms of fiber orientation estimation and false-positive/-negative fiber rates, which are of fundamental importance to tractography based studies. DW data was generated using a multi-tensor model at SNRs of 9, 18 and 36, for sets of 20, 30, 40, 60, 90 and 120 gradient directions. For each combination of SNR and gradient direction set, 10 realizations of data are provided. All data is simulated with a diffusion-weighting of b=1000, as is common for clinical acquisitions.

Resource Type: data or information resource, image collection

Keywords: brain image, dw mri, diffusion analysis

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Ratings and Alerts
No rating or validation information has been found for Simulated DW-MRI Brain Data Sets for Quantitative Evaluation of Estimated Fiber Orientations.

No alerts have been found for Simulated DW-MRI Brain Data Sets for Quantitative Evaluation of Estimated Fiber Orientations.

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**Data and Source Information**

**Source:** [SciCrunch Registry](https://www.sci.crunch.org)

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**Usage and Citation Metrics**

We found 1 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](https://www.sci.crunch.org).