Resource Summary Report

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Multicomponent T2 estimation with stimulated echo correction

RRID:SCR_002446
Type: Tool

Proper Citation

Multicomponent T2 estimation with stimulated echo correction (RRID:SCR_002446)

Resource Information

URL: http://www.nitrc.org/projects/multi_t2/

Proper Citation: Multicomponent T2 estimation with stimulated echo correction (RRID:SCR_002446)

Description: Software tool designed to assist users in the estimation of multiple relaxation components from MRI T2 weighted spin-echo data such as that produced by a Carr-Purcell-Meiboom-Gill (CPMG) sequence. This problem is important to study myelin content in white matter diseases such as multiple sclerosis. Stimulated echoes arising from non-ideal flip angles are accounted for using the Extended Phase Graph (EPG) algorithm. The distribution is modelled as a small number of discrete components and a Bayesian estimation algorithm is provided to determine the weights and locations of the components as well as the actual flip angle. This algorithm outperforms iterative gradient descent based approaches.

Abbreviations: Multicomponent T2 estimation with stimulated echo correction

Resource Type: software resource

Defining Citation: PMID:23629849

Keywords: algorithm, matlab, magnetic resonance, mri

Funding:

Availability: GNU General Public License

Resource Name: Multicomponent T2 estimation with stimulated echo correction

Resource ID: SCR_002446

Alternate IDs: nlx_155820

Record Creation Time: 20220129T080213+0000

Record Last Update: 20250410T064912+0000

Ratings and Alerts

No rating or validation information has been found for Multicomponent T2 estimation with stimulated echo correction.

No alerts have been found for Multicomponent T2 estimation with stimulated echo correction.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.