Docket #: S03-138

MRI - Method for Removing Dynamic Nonlinear Phase Errors from MRI Data

Disclosed is a generalized reconstruction method that corrects for non-linear phase errors based on least-squares estimation. An approximation of the least squares estimate utilizes refocusing reconstruction in which high-resolution data is multiplied by the phase conjugate of a navigator in image-space. The multiplication rephases the unaliased signal in the high-resolution data. The high-resolution data can then be added together coherently. The multiplication can be effected in k-space as a convolution using a gridding reconstruction of the high-resolution data using the low resolution navigator.

Innovators

- Karla Miller
- John Pauly

Licensing Contact

Irit Gal

Senior Licensing Manager

Email