Docket #: S16-072

Fat-based registration of dynamic water images

Stanford researchers have developed an improved method to correct deformable motion in dyanamically ehanced images of the breast. The approach uses fat-only images, which are intrinsically non-enhancing to estimate and correct the motion in contemporaneously acquired water-only images. This approach improves the motion correct of water images and provides greater image quality.

Applications

- Three/Four dimensional rigid/deformable motion correction of fat water separated dynamic contrast enhanced/varying contrast MRI images.
- Measurement/correction of cardiac/respiratory motion using fat images..

Advantages

- This method does not introduce new motion compared to the currently available algorithms and will be useful for improving both qualitative and quantitative analysis of dynamic images such as pharmacokinetic analysis, wash-out slopes and other related quantities.

Patents

- Published Application: 20170285125
- Issued: 10,684,344 (USA)

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