

New Features and Bugfixes for BESA MRI 2.0 August 2014

FEM

- The FEM model can now be generated for MEG sensors of all commercially available systems.

Co-registration

- The handling of head surface point files was improved. Export of *.sfh files, and copying of BESA MRI projects to different folders is now possible without loss of any previous results.

Reader

- The DICOM reader was improved and can now handle the situation where DICOM files for one scan are spread over several sub-folders.
- The import functionality for Analyze data formats was improved and now also handles files with 12 bits per pixel correctly.

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FEM

- Source space calculation is now optimized so that sources are restricted to positions where the leadfield can be most accurately computed.
- It is now possible to manually adjust conductivity values for scalp, skull, brain and CSF.
- A new smoothing parameter was introduced for scalp segmentation to improve handling of MRI scanner artifacts.

Reader

- The DICOM reader was improved so that individual scans can be selected based on the scan's metadata (subject name, series description, etc.) instead of using the filename of a slice belonging to the scan.

Other

- The use of internal memory was improved for segmentation and leadfield calculation.