

New Features and Bugfixes for BESA MRI 2.0 March 2016

Segmentation

- The cortex segmentation was enhanced in order to include cortex inflation as an optional additional feature. If an MRI with cortex inflation is co-registered with a sensor cloud, the inflated cortex is automatically available in the BESA Research Source Analysis window for the visualization of cortical methods like Cortical CLARA, Cortical Loreta, or Minimum Norm estimate (BESA Research version 6.1 and higher).
- Problems with loading T2-weighted data sets in Analyze/NIFTI format in a combined T1- and T2-project were solved.
- The subject naming and anonymization workflow was improved for data sets with T1 and T2-weighted MRI scans.

Co-registration

- An issue when turning “Optimize Scales during fit” off in the Advanced Settings after it had been used in a previous fit was solved.
- For MEG data, turning off “Optimize Scales during fit” in the Advanced Settings could result in erroneous lead field tables. This is now fixed.

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.

New Features and Bugfixes for BESA MRI 2.0 November 2013

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.