

We have released EMSE<sup>®</sup> Suite v5.2 , available at: <http://www.sourcesignal.com/download.html>. This new 5.2 release includes significant enhancements that have been identified by users as being of particular importance, including:

- ☒ **Data editor enhancements**, especially ERP/F functionality
  - **Compressed trial array**, an interactive tool that facilitates visual inspection and correction of trials and channels
  - **Batch averaging**, which permits the user automatically to train the software on averaging procedures while exploring the data, then apply the training to additional datasets
  - **Peak detection**, which may be used to automate the export of features such as latency and amplitude to be used for *e.g.*, ANOVA analysis.
  - Additional **mouse button functionality** (including one-click channel interpolation and one-click single channel display)
  - **FIR filters** (compared with IIR filters, FIR filters can stably approach arbitrarily sharp cutoffs at the cost of slower computation; also may be applied to entire continuous datasets without memory limitations)
  - **Phase-locked SNR filtering** (a method for spatially cleaning event-related data by preserving only those components such that phase-locked activity exceeds residual non-phase-locked activity)
- ☒ **New file formats supported**
  - **Nicolet BNI** reader
  - **Neuroconn NEURO PRAX** reader
  - **Plexon PLX** reader
  - **EMSE metafile** format (permits multiple continuous files to be treated as if one large file; also permits multiple projects to share the same target data while employing different filters and preferences; target data may exist on a read-only drive so long as the metafile exists on a writable drive) (read/write)
  - **Neuromag FIFF** format (time series reader only)
  - **4D Neuroimaging dipole files** (version 1 format), read/write
- ☒ **Epilepsy analysis tools**
  - **Automatic Spike Recognition (ASpiRe)** for interictal spike detection/localization
- ☒ **Source estimation tools**
  - **RAP Music** dipole fitting
- ☒ **Functional connectivity tools**
  - **Dynamic Imaging of Coherent Sources (DICS)** , a new tools for source space connectivity analysis
  - Wavelet-based time-frequency **phase synchrony** estimation in signal space or source space
- ☒ **Locator** improvements
  - **USB** support for Polhemus Patriot digitizer
- ☒ **Hypothesis testing**
  - **Frequency domain** permutation tests in signal space
  - **Whole map** (as opposed to single site) tests
- ☒ **MR Viewer**
  - **Histogram equalization** automatic brightness control
  - **Cortex map data display**
- ☒ **USB hardlock** (for license management)

You will need a current license or a trial code to run all the features of the new

software. If your subscription is current, you can update your dongle for v5.2 by following the link in the ReadMe file, which will be displayed automatically after the software is installed.

Contact [techsupport@sourcesignal.com](mailto:techsupport@sourcesignal.com) if you have any questions regarding your license.