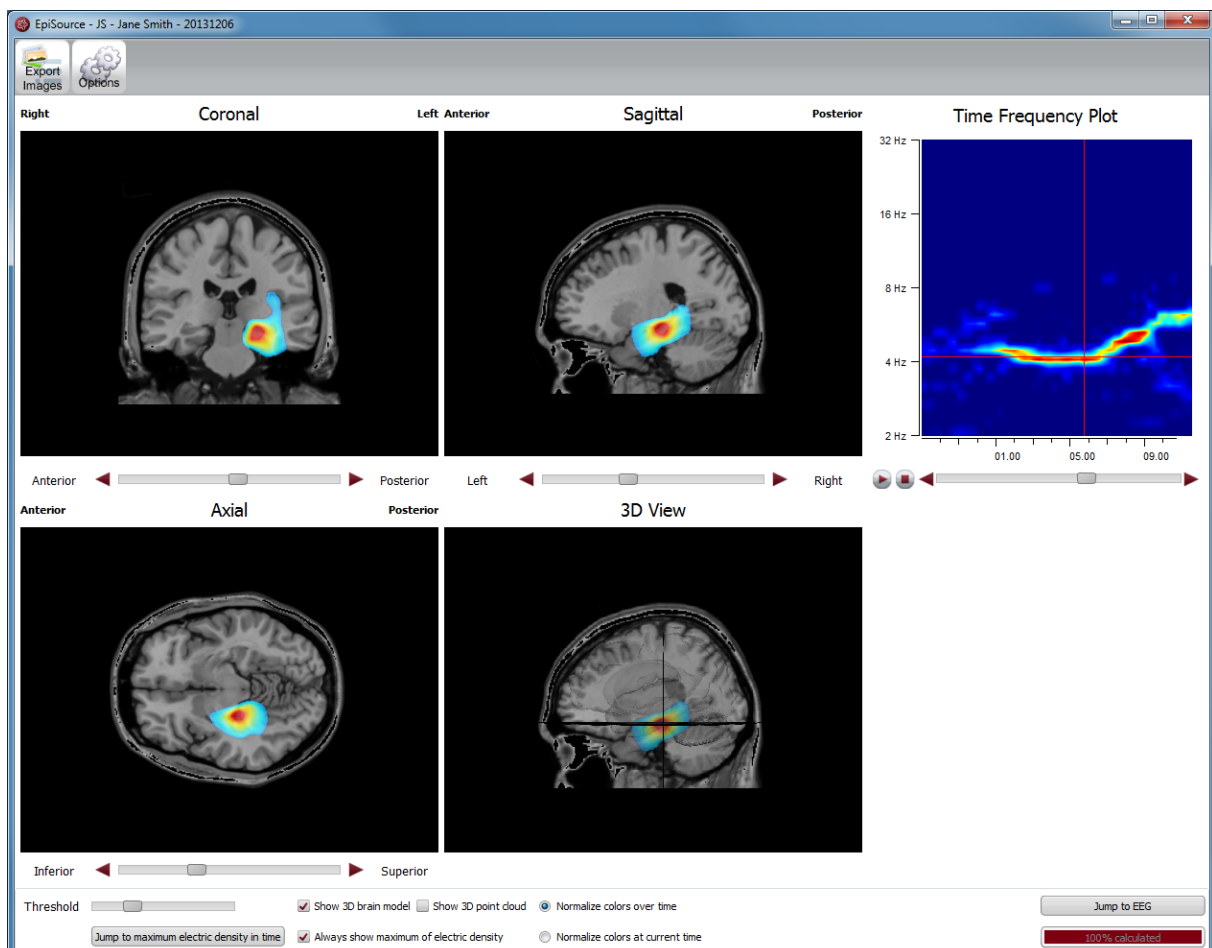




3D-Imaging for EEG

Over years electrical source localization was some very complicated piece of magic. The necessity for highly specialized software with lots of options and parameters made it far to difficult for everyday use in a clinical environment.

EpiSource, the source localization from the encevis software package developed at AIT, has finally changed this. We created a clinical tool that works out of the box. Mark spikes and seizure activity in the EEG, EpiSource will do the rest. Find the maximum of activity in a mouse click and get a detailed movie of the source of EEG over time.



EpiSource

3D-Imaging for EEG



Easy to use

Mark spikes and ictal activity in the EEG and start EpiSource with just a mouse click. EpiSource will provide you with a 3D localization in a glimpse of time. Almost no user interaction is required making it easy for you to use this advanced method for EEG evaluation. Combine the use of EpiSource with the encevis automatic spike and seizure detection and save even more time in the process.



3D visualization

EpiSource localizes the source of spikes and ictal activity and displays the results as a colored overlay over the MRI slides. An additional interactive 3D plot gives you a clear visualization. Navigating through the results is made easy and EpiSource helps you identifying the moment and place of maximal activity with just a mouse click. The results can be displayed as a movie that will show you the evolution of the source over time.



Get the source of interictal spikes

EpiSource localizes spikes and shows the results as a colored overlay over the MRI slides together with the EEG of the spike. The 3D localization results are synchronized with the EEG for you to see at which time point of the spike you are. Go through the spike step by step and see how the focus of epileptic activity evolves over time. Combine EpiSource with the encevis spike detection that will provide you with clusters of spikes grouped by localization.



Get the source of seizure activity

EpiSource can analyze rhythmic seizure activity in your patient's EEG and find the source of this activity within the brain. EpiSource will identify the dominant frequency for each time point and will show it on a time-frequency plot. Step through the results and see how the focus of epileptic activity evolves over time. The result will be displayed in an interactive movie that will show you the evolution of the source of the seizure over time. Combine EpiSource with the encevis seizure detection, it will find the ictal activity for you.

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encevis EpiSource is not yet certified by the FDA