

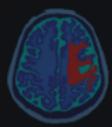
## Personalized tES Treatment tDCS/tACS Simulation Software tES LAB

This version includes simulating electric field strength with stroke-affected region segmentation feature.

### Neurophet tES LAB is a complete, powerful tES simulation software

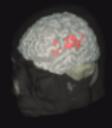
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### Fully Automated Brain MRI Segmentation Including Stroke-affected Region



Deep learning-based Neurophet's technique segments skin, skull, CSF, white matter, grey matter, and even stroke-affected region using MRI.

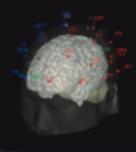
### Personalized Brain Modeling



An automated modeling algorithm generates a 3D brain model based on segmented tissue layers considering an individual's anatomical structures.

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### Fully Compatible with tES Parameters



- Customizable electrodes configuration (shape, size, number, and position of electrode)
- Electrode positioning system (10-20/10/5 EEG positioning system)

ws you to simulate and analyze uced electric fields in a lized brain model using MRI.

### A Powerful tES Simulation Framework

The high-speed simulation feature calculates tDCS/tACS-induced electric field in the brain for advanced analysis and treatment planning.

- Easy, intuitive graphic user interface (GUI)
- The state-of-the-art visualization and analysis features (3D surface/cut-plane and ROI-based analysis)
- Electric field optimization features (single/multi-channel tES optimization)
- Visual guidance for accurate electrode positioning

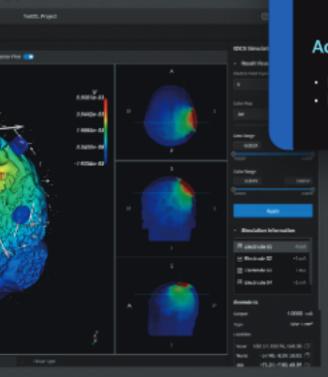
### Additional Convenient Features

- Data export: segmentation label, 3D model, stimulation results
- Batch-processing for group data analysis

### Neurophet also provides TMS LAB

for Personalized Transcranial Magnetic Stimulation Simulation and Planning

- Simulation & analysis for TMS-induced electric fields
- Optimization of a coil's position & orientation
- Interoperability with TMS Navigation\*
- \*an upcoming function



### Specification

### Supported MRI data format

Image format	NIFTI - 1 (file extension : ліі)
Туре	Structural MRI (T1-weighted)
Slice thickness (Specing)	Coronal ≃ 1.0 mm Segittal ≤ 1.0 mm Axial ≤ 1.6 mm
Field Strength (Tesla)	15T 30T

### Validated devices and protocols of MRI

Company	Model	Protocol
GE	Signa HD∗t 1.5T	SPGR
Philips	Intera 1.5T	VPRAGE
	Intera 3T Ingenia 3T	TRE
Siemens	Skyra 3T Verio 3T	√PRAGE



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