BraTS-CEST

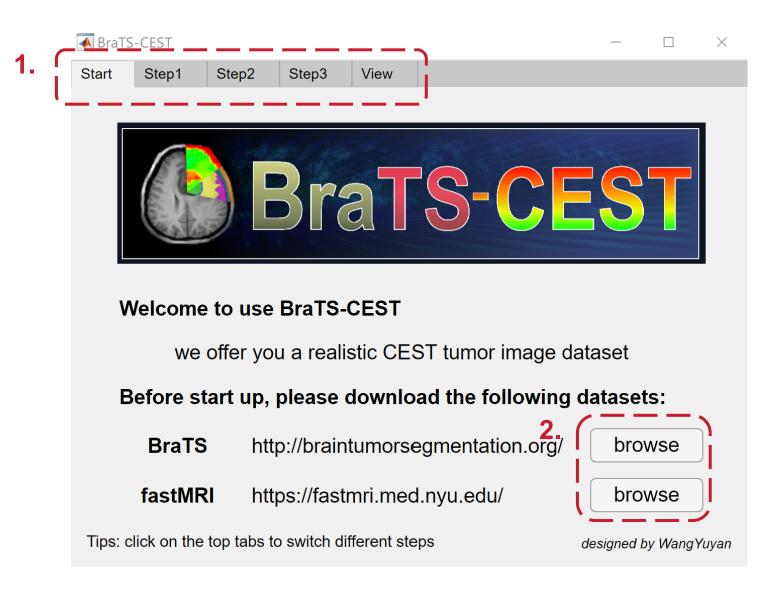
Tutorial of MATLAB GUI

Setup: dependent libraries

- ☐ Libraries from third parties have been packed into executable file of BraTS-CEST:
- ☐ Please make sure you have the following official toolboxs installed:
- Image Processing Toolbox
- Curve Fitting Toolbox
- Partial Differential Equation Toolbox
- ☐ For better performance, we highly recommend Parallel Computing Toolbox.

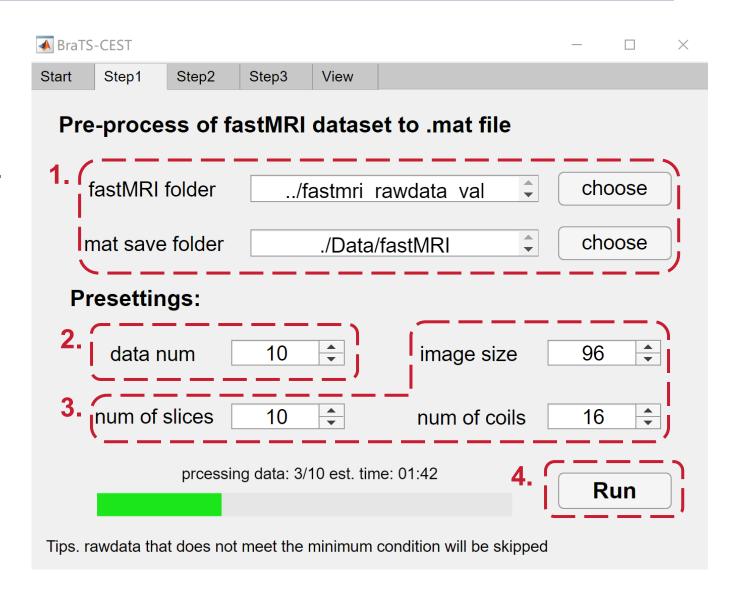
GUI: Start

- 1. Click the **Step Tab** above to select the synthesis step.
- 2. Click the **browse button** to jump to the corresponding web page.



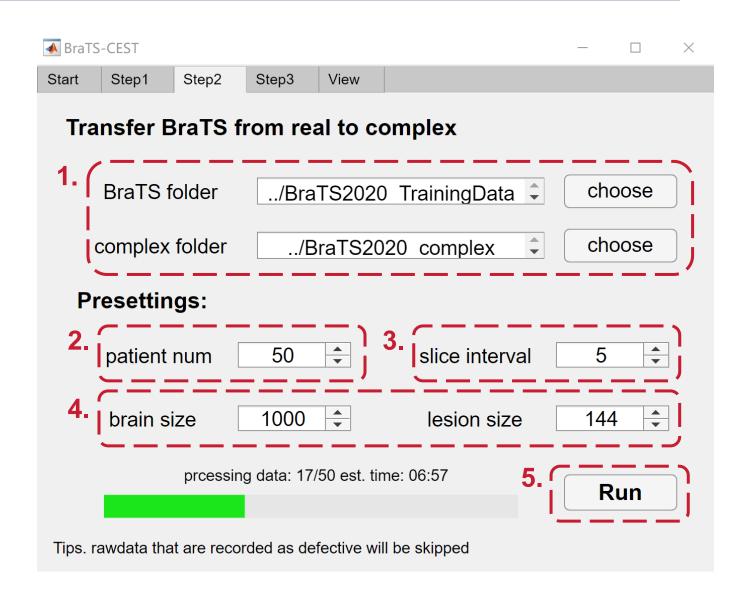
GUI: Step1

- 1. Click the **choose button** or enter the **path of fastMRI.h5 rawdata** directly in the **text box.**
- 2. Select the **data num** to be converted.
- 3. Select data size after converting.
- 4. Click the **Run button** to start.



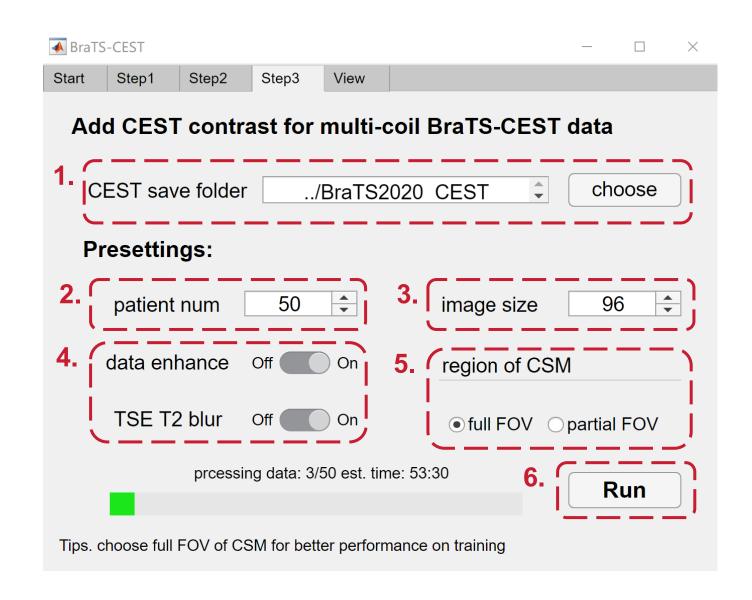
GUI: Step2

- Click the choose button or enter the path of BraTS .nii rawdata directly in the text box.
- 2. Select the **patient num** to be converted.
- 3. Select the **interval between slices** (e.g. a BraTS data with 20 slices, set interval 5 will convert it to 4 slices).
- 4. Select the minimum region voxel size of slice (slice that do not meet the requirements or marked as defective in BraTS2020_QC.xlsx will be skipped).
- Click the Run button to start.



GUI: Step3

- 1. Click the **choose button** or enter the **BraTS-CEST save path** of directly in the **text box.**
- 2. Select the **patient num** to be converted.
- Select image size after converting.
- Turn rigid transformation data
 enhancement and T2 blur imitating
 TSE On or Off.
- Select the **region of CSM** to cover full FOV or not.
- Click the Run button to start.



GUI: View

- 1. Select the **patient id** and **modality** to be viewed.
- 2. Click the **Load button** to start

