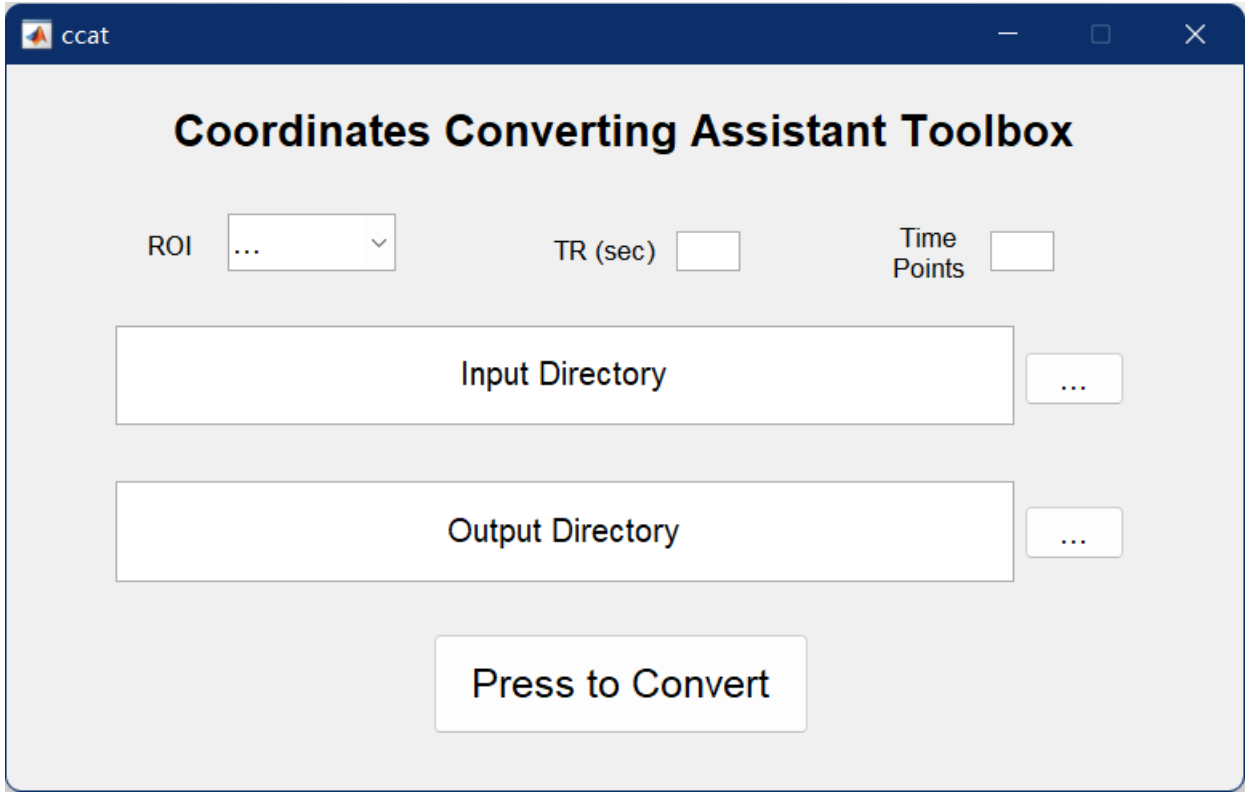
CCAT user guide

If you think CCAT is useful for your work, citing it in your paper would be greatly appreciated!
Reference: Zhao, N., Qiao, Y., … Zang, Y.F., 2024. Automatically targeting the dorsolateral subthalamic nucleus for functional connectivity-guided rTMS therapy. Ageing Neur, doi: 10.20517/and.2023.31

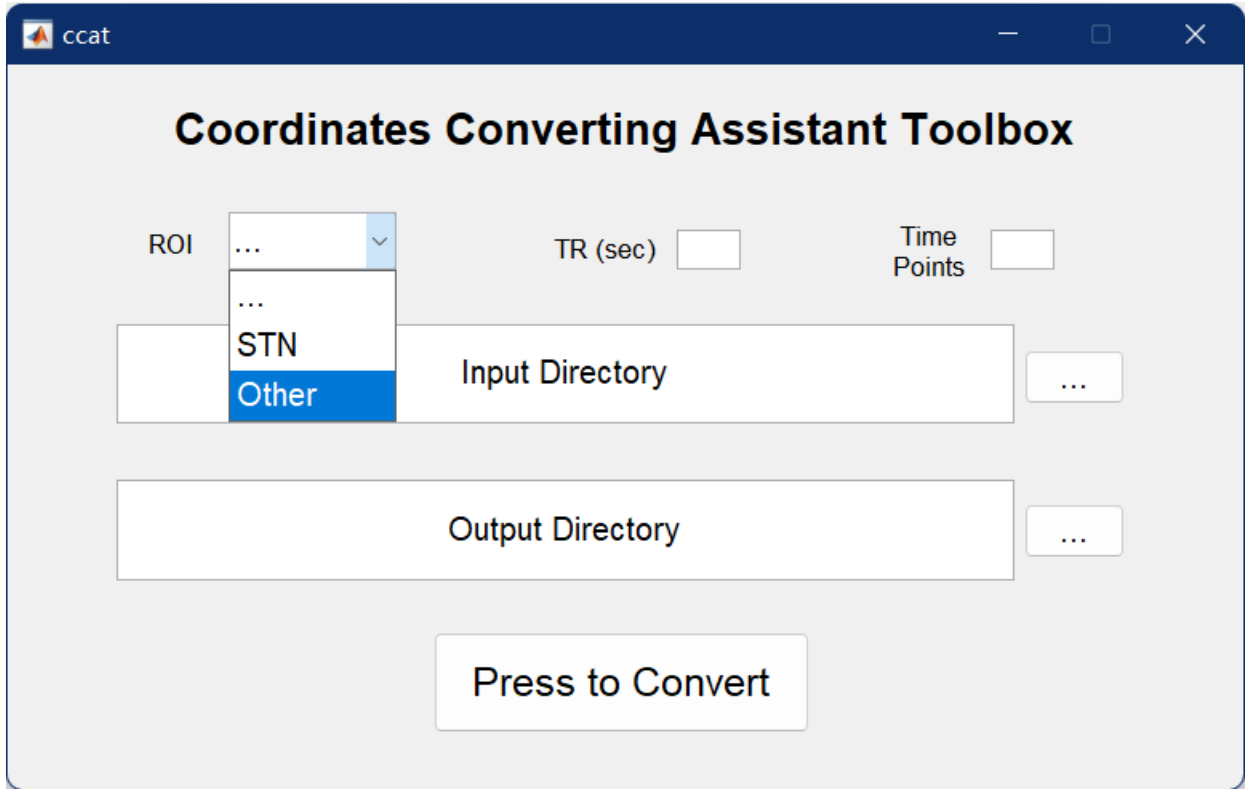
2024-05-10

Main interface



ROI selection

- ROI can be defined as any brain masks by choosing ‘Other’. Default is STN.
- You need to select a folder that contain mask files **ONLY**. Multiple mask files in one folder is accepted.

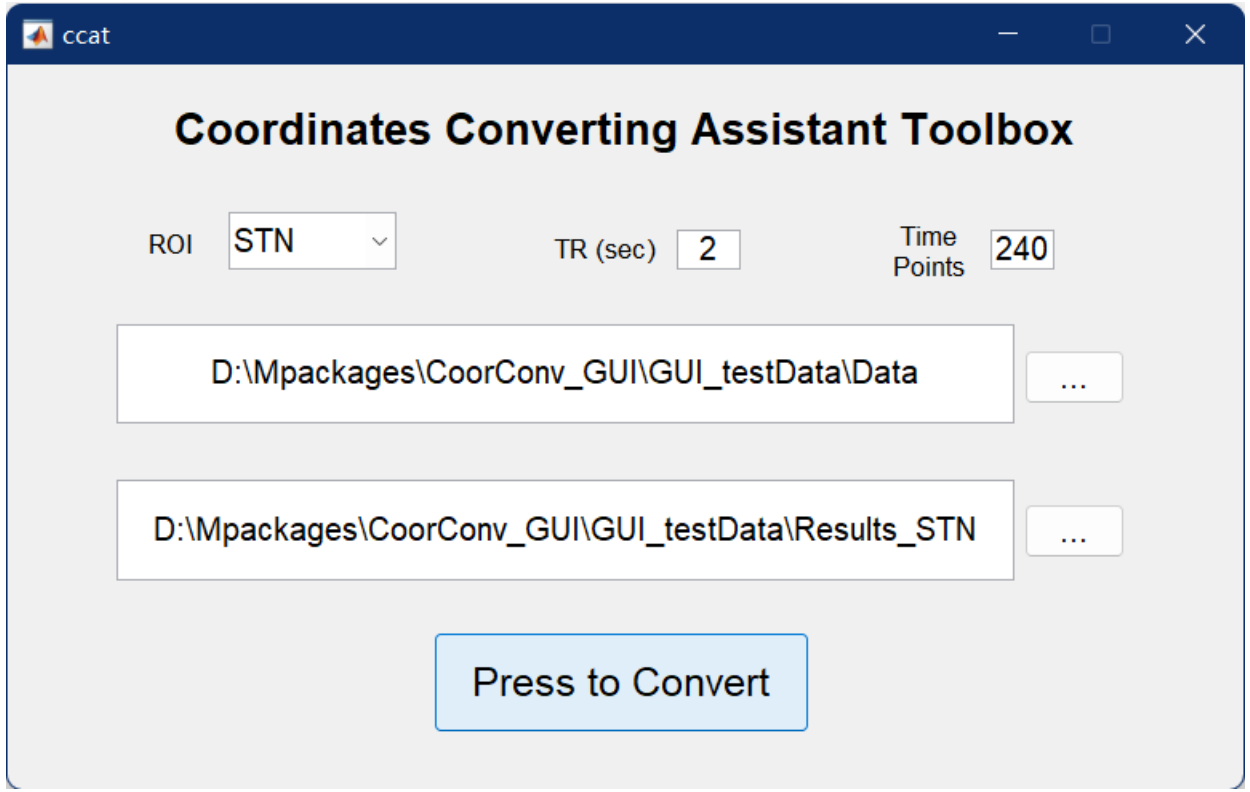


Other input parameters

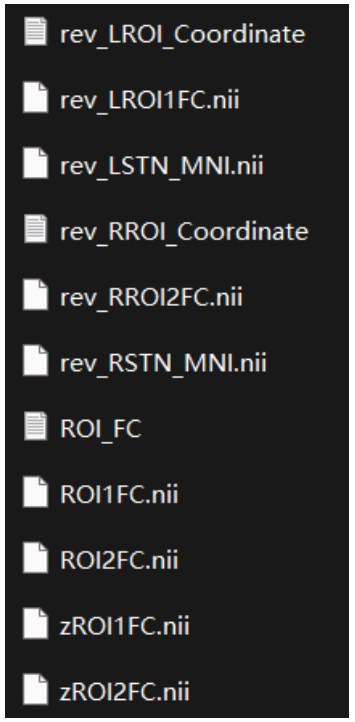
- The TR and time points are based on your functional data.
- Input directory is a path of a folder which have two subdirectories named ‘FunImg’ and ‘T1Img’, and **ONLY ONE** subject data in each subdirectory.
- Output directory is a path that will save all result files.

Run

- After set all parameters, press the bottom button ‘Press to Convert’. This toolkit will automatically calculate and save all results.



Output results



- Default STN ROI will generate following results:
- 1. Original space results with the prefix of ‘rev_’ which contains converted ROI with coordinate, and FC map.
- 2. ROI time series.
- 3. Standard space FC map (with Z score FC map).