|  |  |  |
| --- | --- | --- |
| Name | | Description |
| Data preparation | |  |
| FBL\_create\_1Lv\_GLM0\_mopa\_concatsessions.m | | This is the first level in which we want to base DCM. IF our design has more than one sessions we need to concatenate these (concatenate event offsets and regressors). It requires an additional module and calling the SPM function *spm\_fmr\_concatenate* |
| Time series extraction | |  |
|  | FBL\_a\_extract\_rois.m | Select subjects, ROI labels and coordinates (well-defined regions may also use a mask from a template. Other region’s coordinates can be extracted by the group maximum in the 2nd level analysis). Reads contrasts of interest from the first level in those ROIs. It also uses the ‘effects of interest’ contrast. Define an uncorrected threshold for activation at single-voxel level (e.g., 0.05). For no mask-based ROIs, we specify a *Search Sphere* for a ‘voi’ (volume of interest) based on our coordinates, and then a *Extraction Sphere* around the local maximum within the search sphere. It will extract ROIs time series per subject (.mat files) |
|  | FBL\_b\_extract\_rois\_check\_region.m | Checks ROI extraction across subjects. It yields a table with subjects as rows and ROIs and columns. The values will indicate how much variance is explained by the eigenvariate extracted from each ROI. A *NaN* value will indicate that no active voxels were found in the mask or search volume. A subject containing NaNs in any ROI will have to be excluded from the DCM. These subjects IDs are collected by the script |
| DM model | |  |
|  | FBL\_c\_create\_dcm\_firstlevel.m | Concatenate multiple sessions (if more than one session available) |
|  | FBL\_d\_estimate\_dcm.m |  |
|  |  | |
|  |  |  |