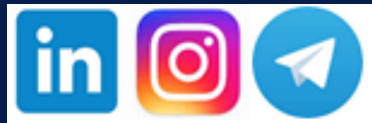


Image Processing 8

Registration

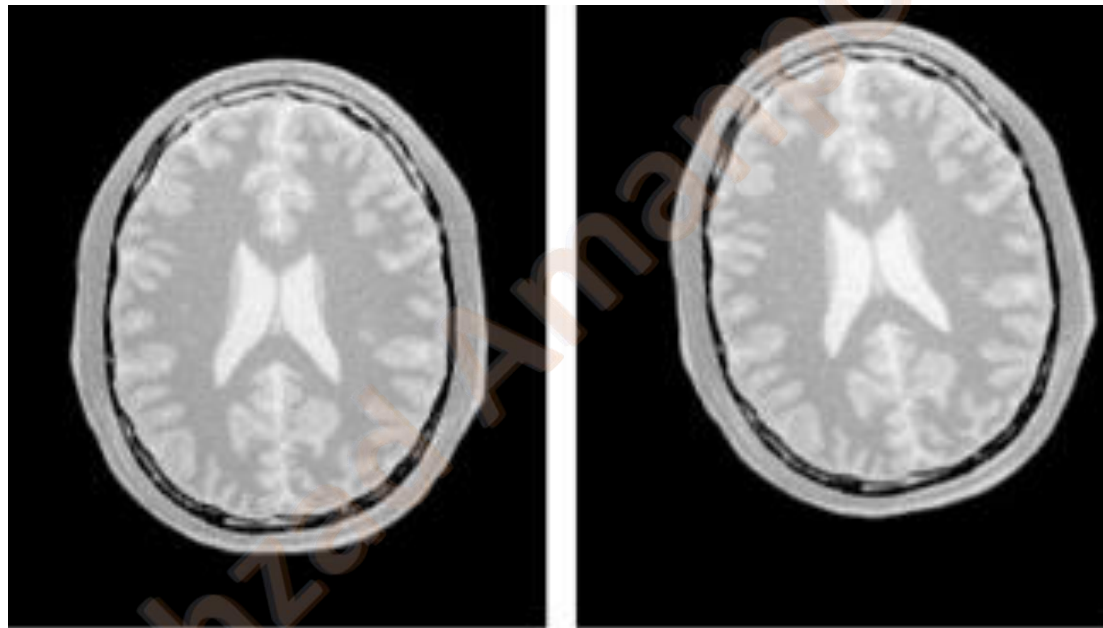


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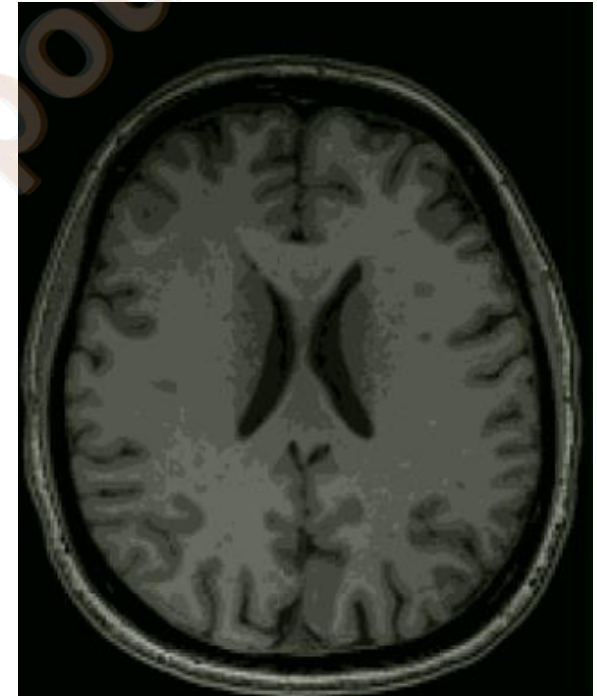
Motion



<https://doi.org/10.1016/j.patcog.2016.01.024>



Different Modalities

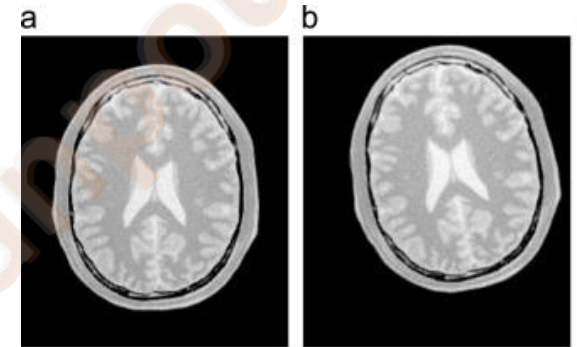
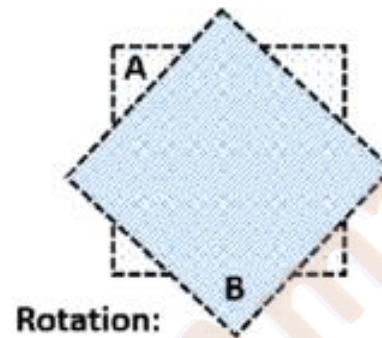
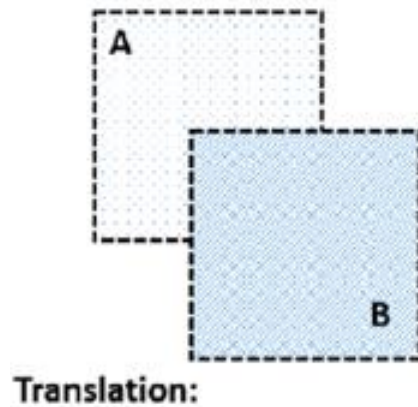


IKHC patient

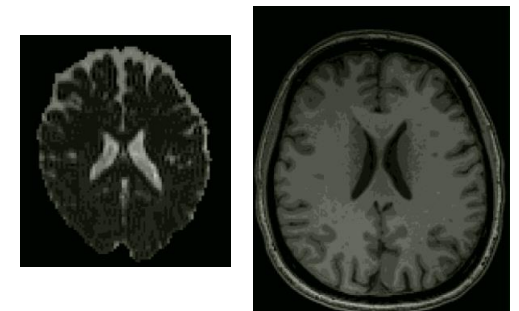
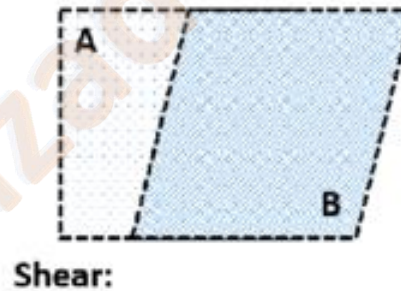
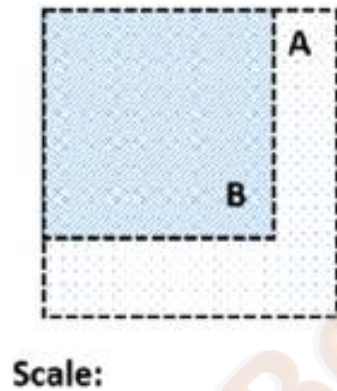


Methods

Rigid



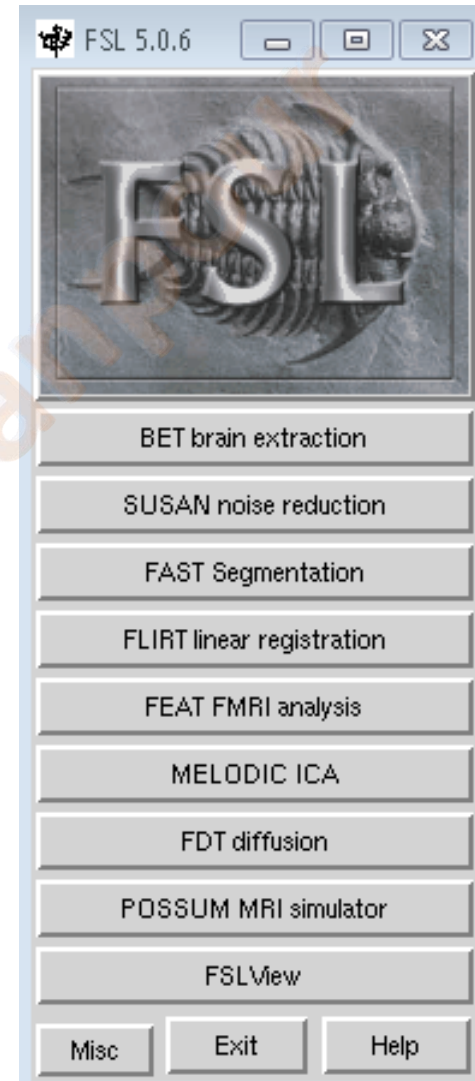
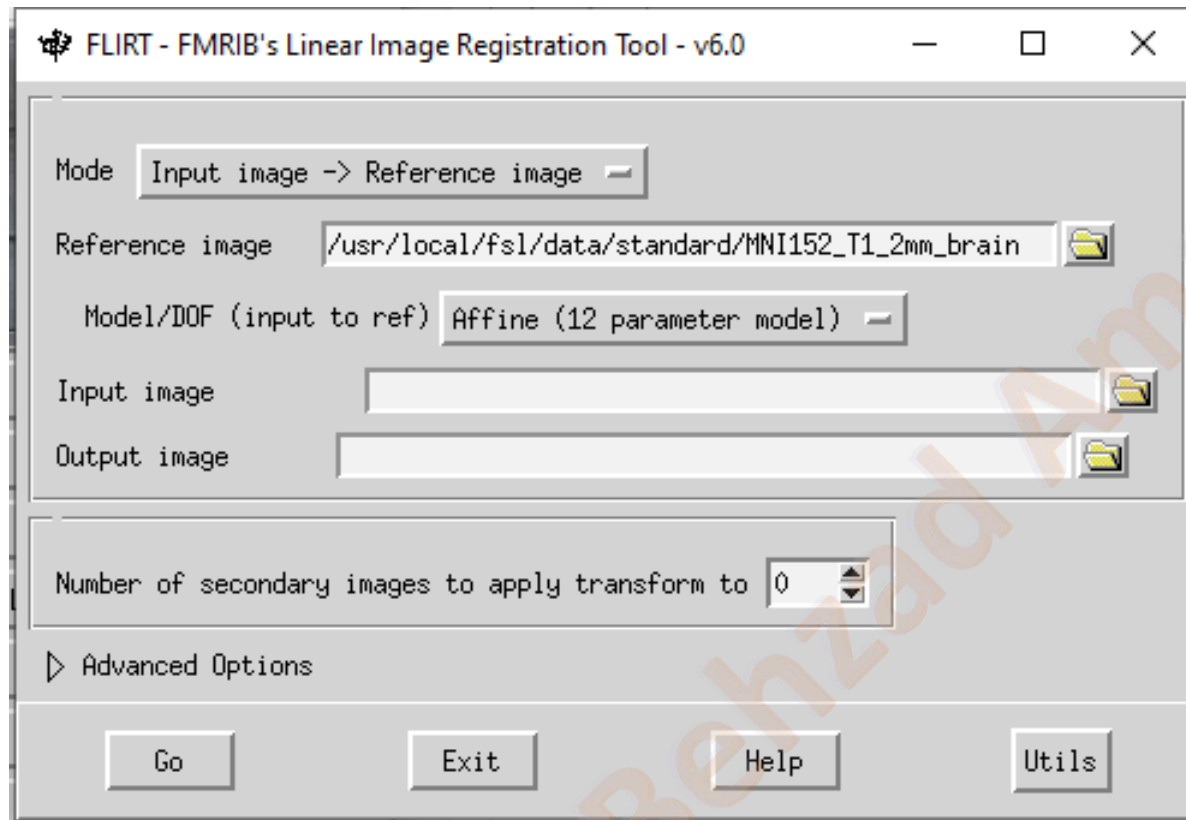
Affine



DOI:10.1117/1.JBO.22.6.066013



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FSL - FslWiki

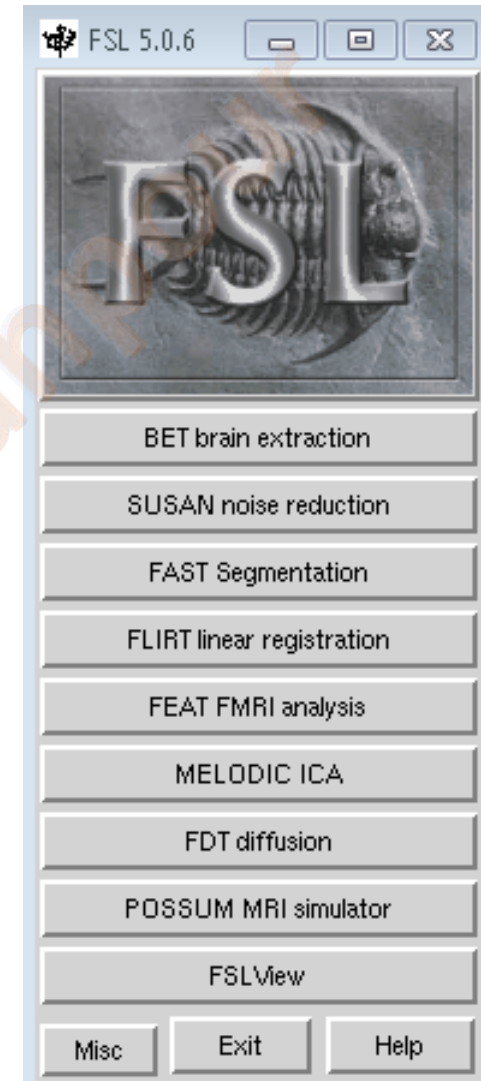
Aban 17, 1400 AP — Created by the Analysis Group, FMRIB, Oxford, UK. of the **FSL** Course is now online, including all the material from the 2020 ..
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SPM



spm software

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<https://www.fil.ion.ucl.ac.uk> > spm > software

SPM Software - Statistical Parametric Mapping

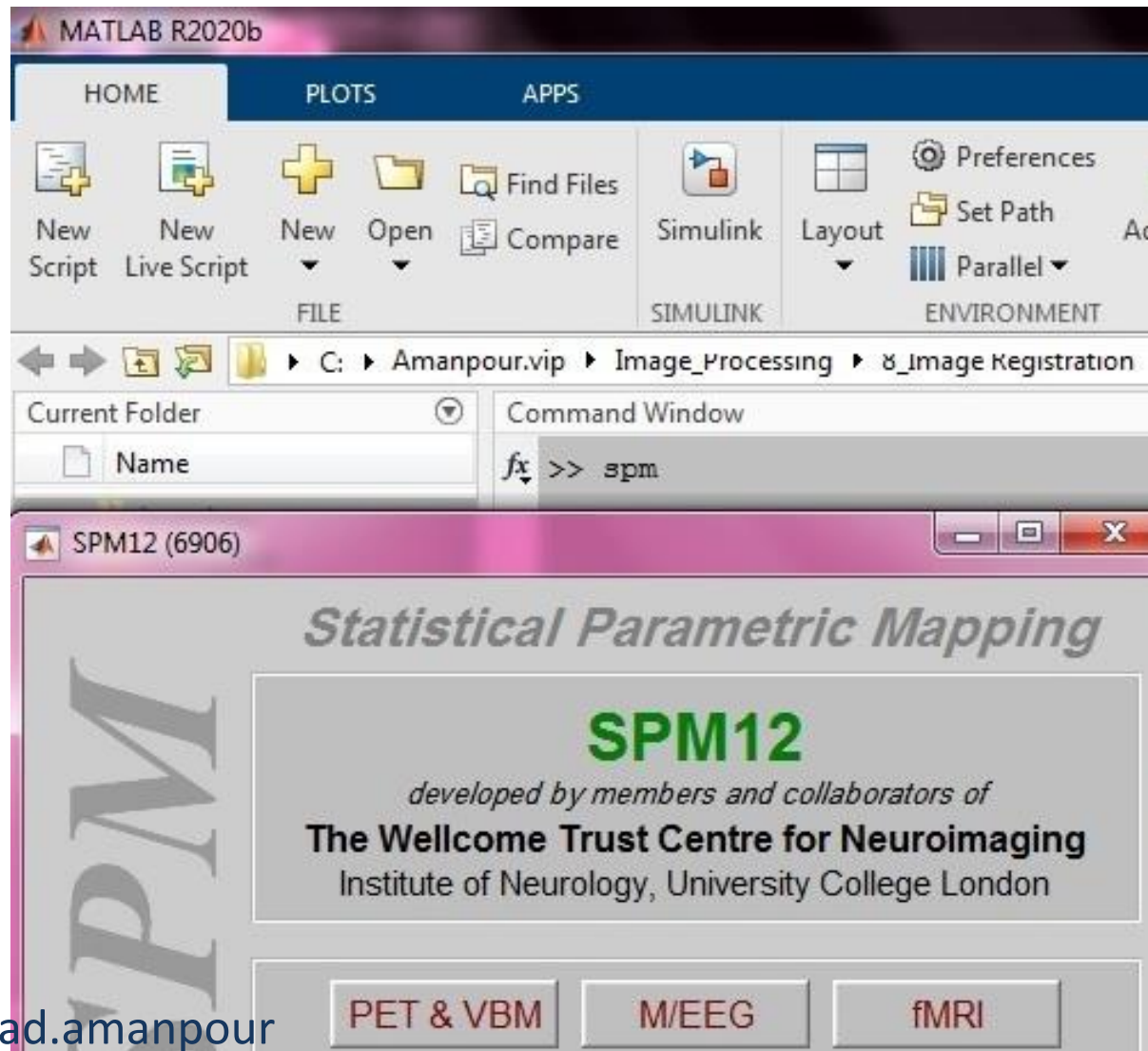
The **SPM software** is a suite of MATLAB (MathWorks) functions and externally compiled C routines. SPM was written to organise and ...



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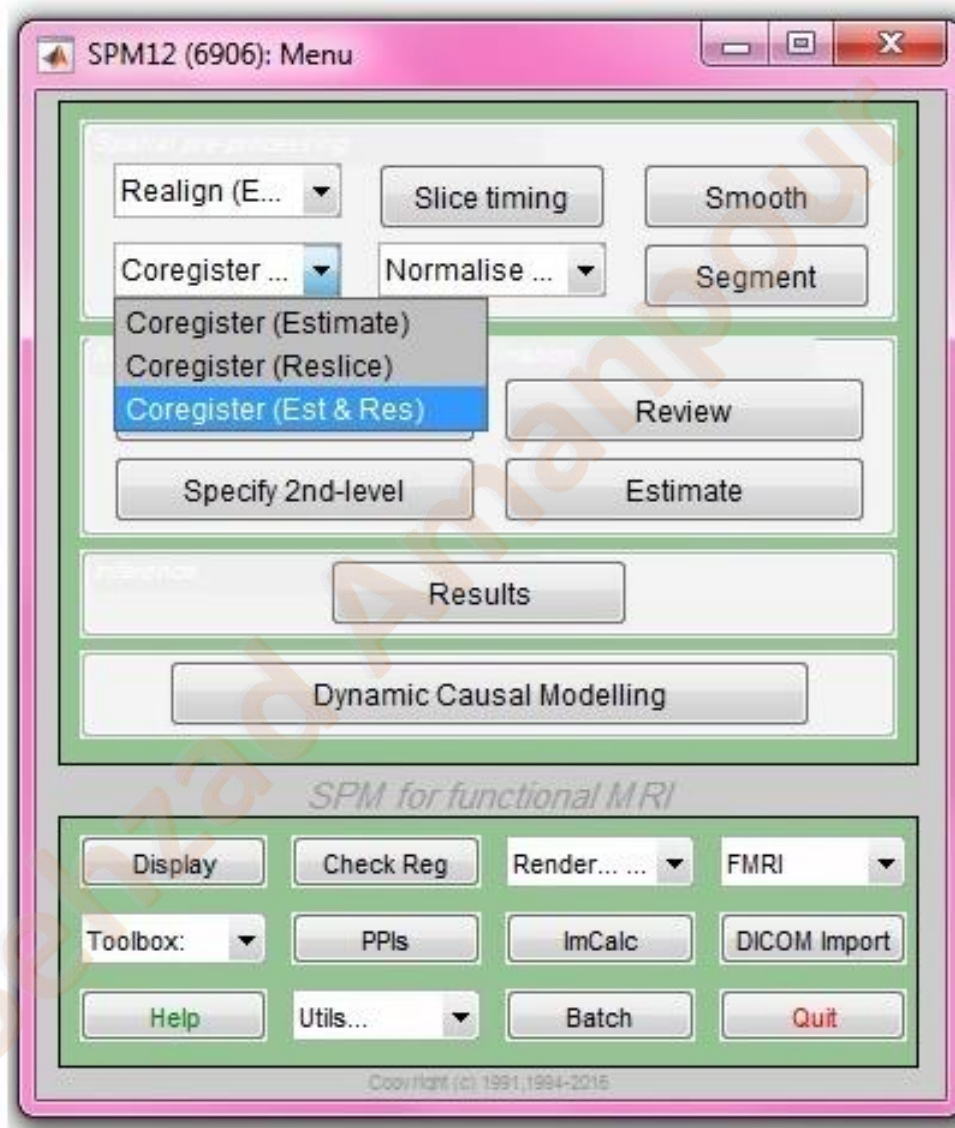


SPM



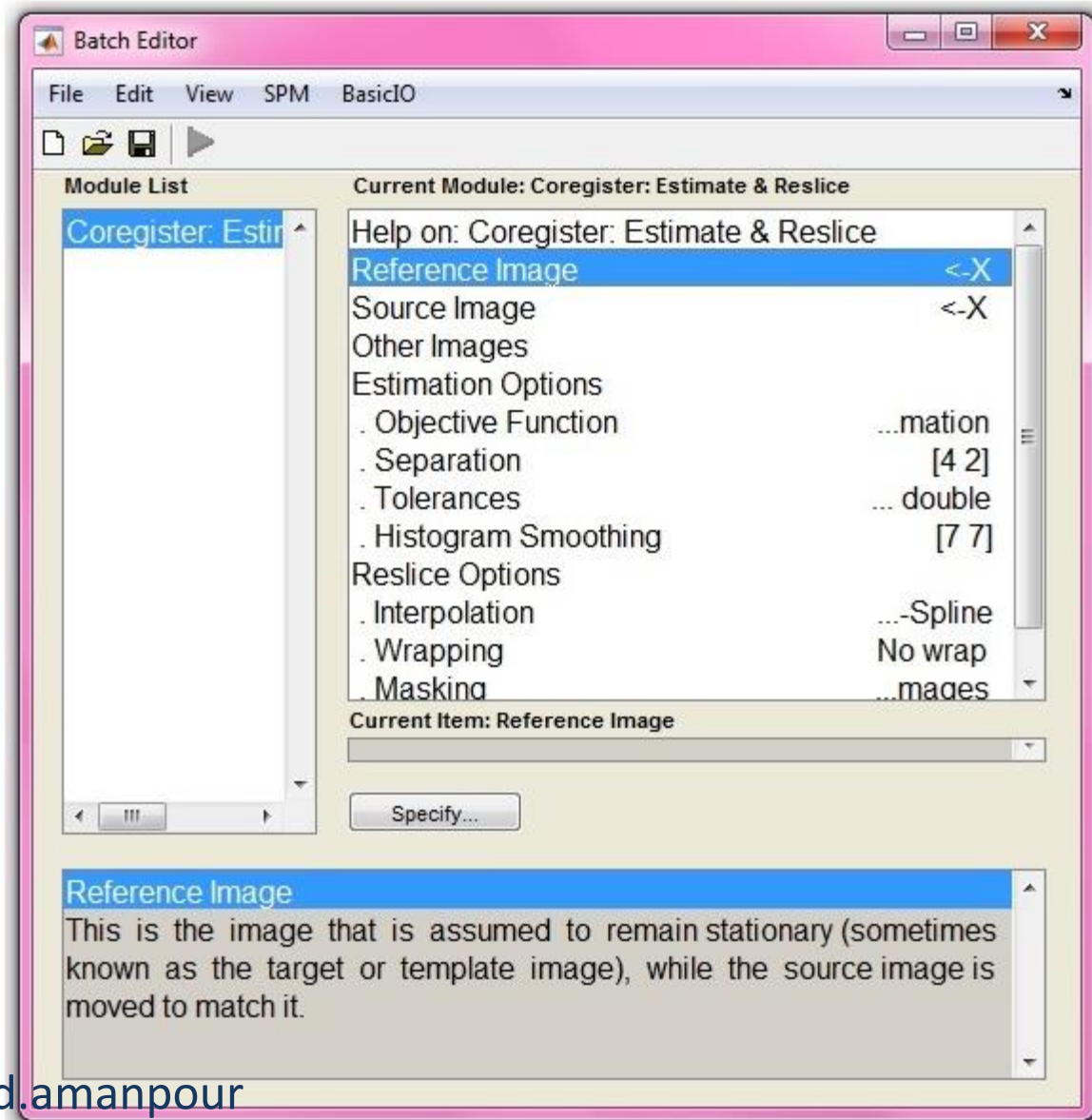


SPM



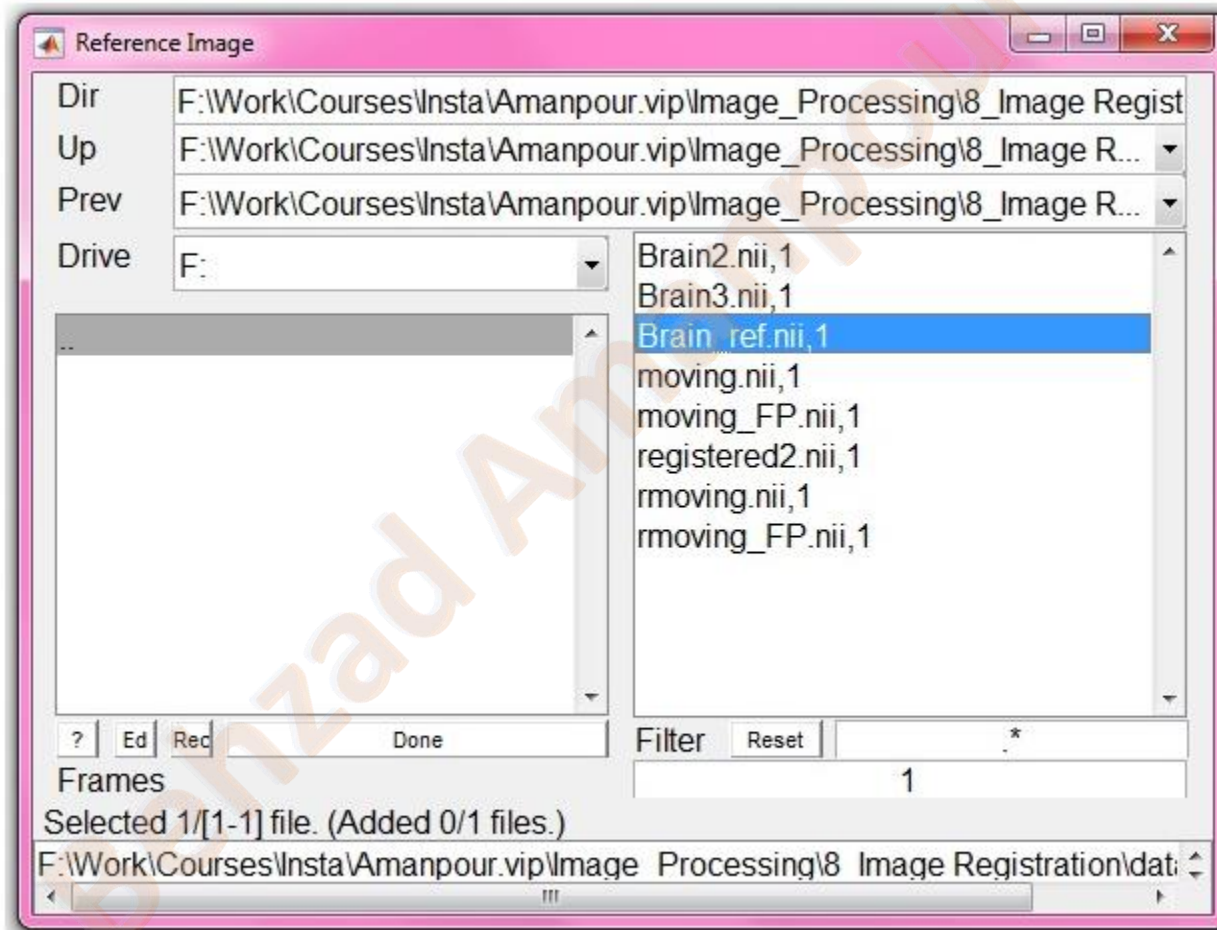


SPM



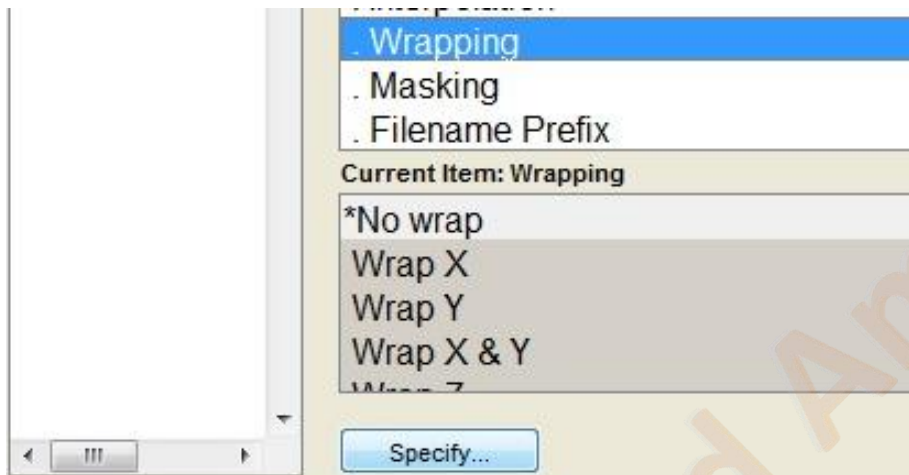


SPM





SPM

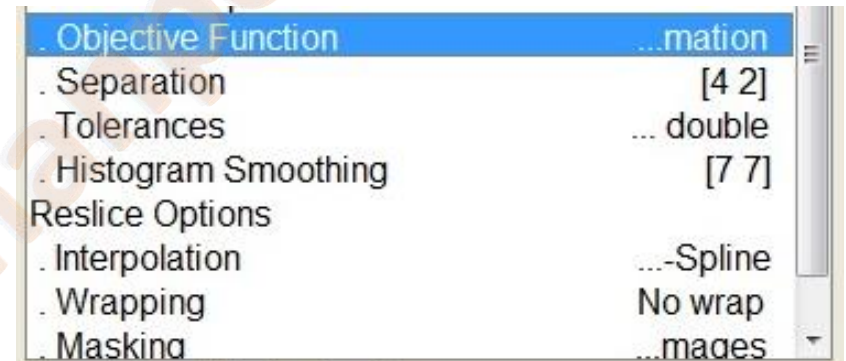


The screenshot shows the 'Wrapping' menu in the SPM software. The menu is open, displaying options: 'No wrap', 'Wrap X', 'Wrap Y', and 'Wrap X & Y'. The 'Current Item: Wrapping' is indicated at the top of the menu. A 'Specify...' button is visible at the bottom of the menu.

Wrapping

These are typically:

- No wrapping - for PET or images that have already spatially transformed.
- Wrap in Y - for (un-resliced) MRI where phase encoding in the Y direction (voxels)



The screenshot shows the 'Objective Function' menu in the SPM software. The menu is open, displaying options: 'Mutual Information', 'Entropy Correlation Coefficient', and 'Normalised Cross Correlation'. The 'Current Item: Objective Function' is indicated at the top of the menu.

Objective Function

Option	Value
Separation	[4 2]
Tolerances	... double
Histogram Smoothing	[7 7]
Reslice Options	
Interpolation	...-Spline
Wrapping	No wrap
Masking	...mages

Current Item: Objective Function

- Mutual Information
- *Normalised Mutual Information
- Entropy Correlation Coefficient
- Normalised Cross Correlation