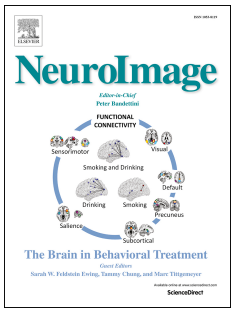
Accepted Manuscript



Volumetric reconstruction from printed films: Enabling 30 year longitudinal analysis in MR neuroimaging

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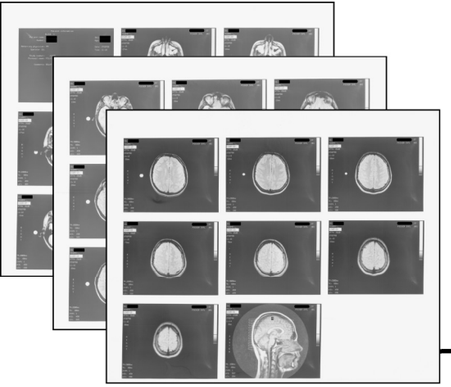
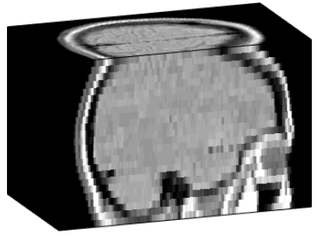
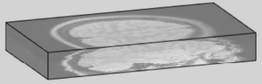


Historical MRI Films (T_0)



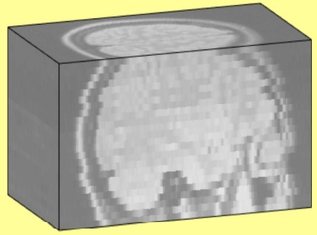
Reference (T_0+ X years)

1. Semi-Automatic Slice Extraction



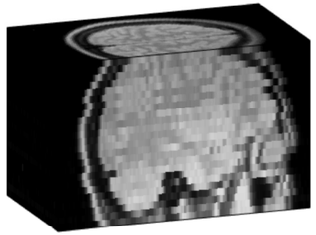
Naively Stacked Data

2. Initialisation
Global Scaling,
Pairwise Slice Align.



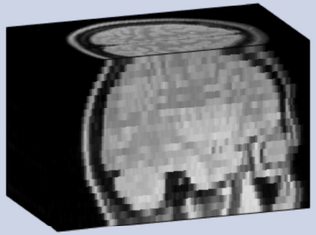
3D Scaled Data

3. Global Intensity Correction

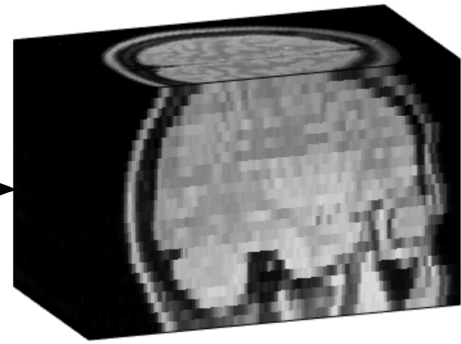


Intensity Corrected Data

4. Refinement
Regularised
Optimisation Models



Reconstructed Volume



Reconstructed Volume