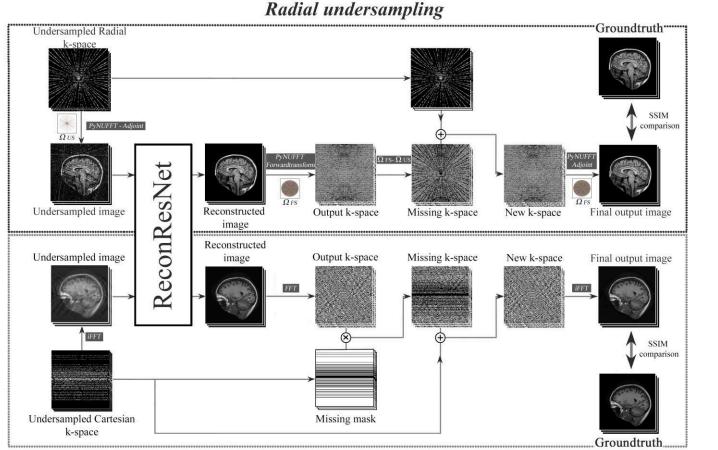
MEMoRIAL

ReconResNet: Regularised Residual Learning for MR Image Reconstruction of Undersampled Cartesian and Radial Data



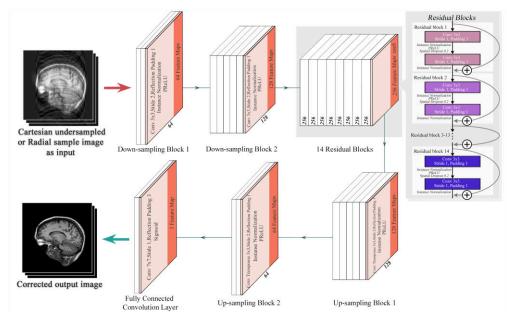
Welcome on board NCC1071

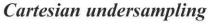
Soumick Chatterjee, Kartik Prabhu, Mahantesh Pattadkal, Gerda Bortsova, Chompunuch Sarasaen, Florian Dubost, Hendrik Mattern, Marleen de Bruijne, Oliver Speck, and Andreas Nürnberger



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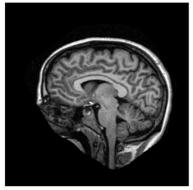
7-9 July 2021 @WWW

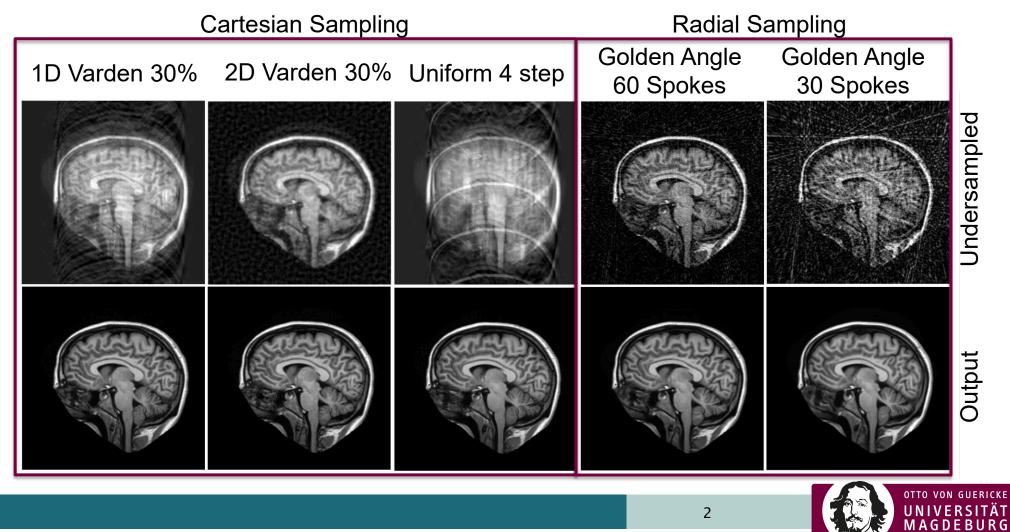


Results – an Example Output

Various Undersampling Patterns Reconstructed







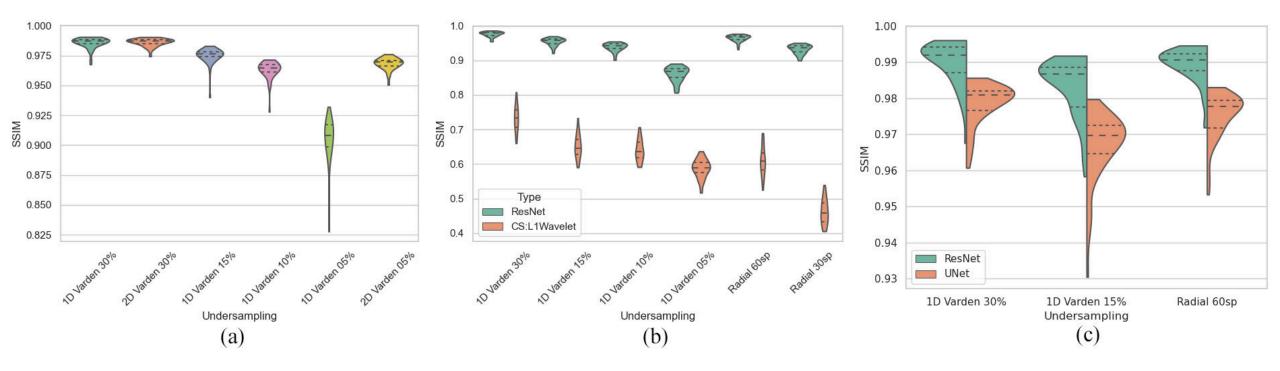
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Results – In Terms of Numbers

Reconstruction quality (SSIM) of the proposed method for different sampling patterns



(a) OASIS-1 dataset: Cartesian undersamplings

(b) IXI dataset - comparison with L1-wavelet regularised compressed sensing: Cartesian and Radial undersamplings
(c) IXI dataset - comparison with UNet : Cartesian and Radial undersamplings

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