

SMALLbox - Feature #455 cardiacMRI

2012-04-25 02:53 PM - L Figueira

Status:	New	Start date:	2012-04-25
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			

Description

(temporal fft operator now in opFFTx.d.m in util directory)

- Problem setup is now kind of realistic:
 - user choose upload cardiac images from dataset
 - user can choose the slice number (1-10 - default is 5)
 - sigma level (0.05 by default)
 - undersampling factor (fold default is 6)
 - n image size (256 by default)
 - read 3d matrix of n*n cardiac images in szf time points
 - adds noise $\sigma \cdot \text{var}(\text{signal})$
 - do 2d circular fft per image and take random lines as specified by mask
 - mask is made to sample n*szf/fold lines in phase encode and time dimensions
 - play movies of original, undersampled cardiac images and mask