Noname manuscript No.
(will be inserted by the editor)

Awesome Title

Ben Adcock · Rick Archibald · Anne Gelb · Guohui Song · Rodrigo B. Platte · Edward G. Walsh

the date of receipt and acceptance should be inserted later

Keywords Fourier Data · l^1 regularization · Split Bregman · MRI

1 Introduction

2 Methods

2.1 Measurements

$$S(k_x, k_y, t) = \iint_{\Omega} m(x, y) e^{-R^*(x,y)t + if(x,y)t} e^{-ik_x x - ik_y y} \partial\Omega \tag{1}$$

2.2 Sampling

2.3 Fourier Frames

2.4 TV optimization

3 Numerical

4 Conclusion

Acknowledgments

This work is supported in part by grants NSF-DMS 1216559 and AFOSR FA9550-12-1-0393. The submitted manuscript is based upon work, authored in part by contractors [UT-Battelle LLC, manager of Oak Ridge National Laboratory (ORNL)], and supported by the U.S. Department of Energy, Office of Science, Office of Advanced Scientific Computing Research, Applied Mathematics program. Accordingly, the U.S. Government

Department of Mathematics, Simon Fraser University, Burnaby, BC V5A 1S6 (ben_adcock@sfu.ca)

Computer Science and Mathematics Division, Oak Ridge National Laboratory, Oak Ridge, TN 37831 (archibaldrk@ornl.gov)

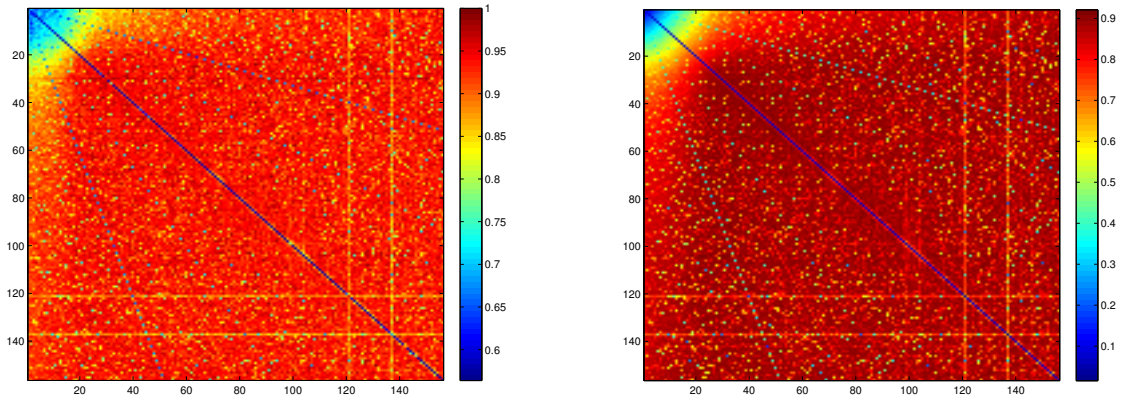
School of Mathematical and Statistical Sciences, Arizona State University, Tempe, AZ, 85287 (annegelb@asu.edu)

Department of Mathematics, Clarkson University, Potsdam, NY 13699. (gsong@clarkson.edu)

School of Mathematical and Statistical Sciences, Arizona State University, Tempe, AZ, 85287 (rbp@asu.edu)

Department of Neuroscience, Brown University, Providence, RI 02912 (edward_walsh@brown.edu)

Address(es) of author(s) should be given



(a) $InterpolationError$ (b) $UniqueSamplePoints$

Fig. 1 (a) Interpolation Error and (b) Unique Sample Points are factors in choosing spiral MRI

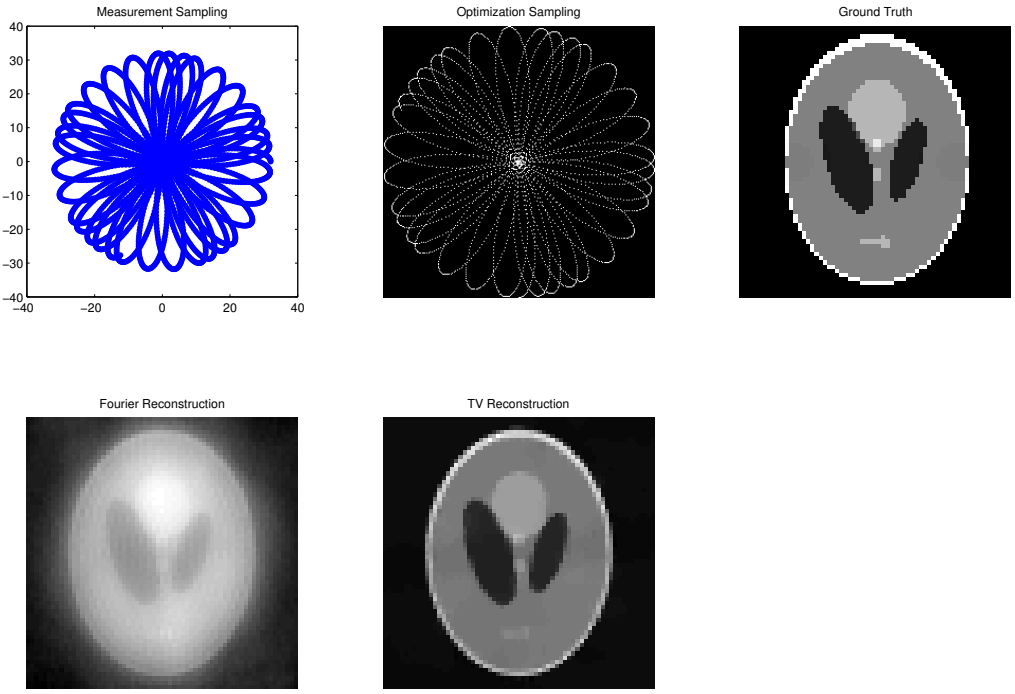


Fig. 2 Time slice

retains a non-exclusive, royalty-free license to publish or reproduce the published form of this contribution, or allow others to do so, for U.S. Government purposes.

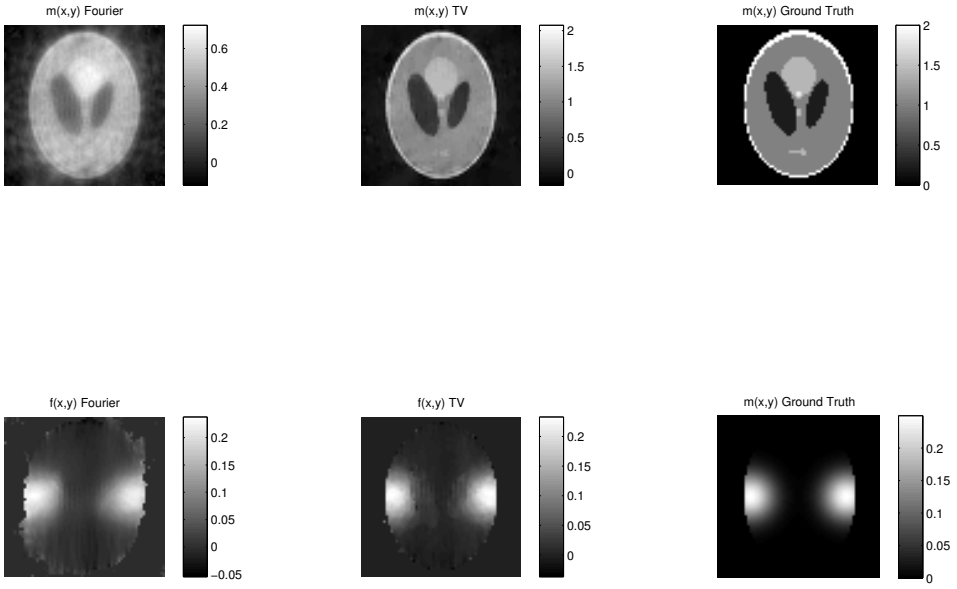


Fig. 3 Time series analysis