## FILTERED INTERPOLATION FOR RESIZING 3D IMAGES

D. Occorsio, G. Ramella, W. Themistoclakis

## 1 Software

The source code of tests proposed in the manuscript "Filtered Interpolation for resizing 3D images" are here collected. They are intended by the authors as support for testing the methods VPI and LCI proposed in the manuscript.

Three tests proposed in the manuscript can be run by the scripts

- 1. Procedure\_Rescaling\_along\_One\_Direction.m (Test 2)
- 2. Procedure\_Upscaling\_x2\_along\_One\_Direction.m (Test 3)
- 3. Procedure\_Phantom.m (Test 4)

which, in any case, are educational, not optimized codes.

The proposed material shall not be modified without having permission from the authors. The authors don't make representations about the suitability of this material for any purpose. It is provided "as is" without express or implied warranty.

## 2 Images of the tests

The images of the tests are:

- in Test 2 the brain MRI image is available in MatLab (uint8 format) and consists of 27 Slices of dimensions  $128 \times 128$ ;
- in Test 3 the DICOM (Digital Imaging and Communications in Medicine) image, which is a study in the abdomen about the arterielle system acquired in modality CT, consists of 361 Slices of dimensions 512 × 512, uint16 format. It is available at https://www.dicomlibrary.com;
- in Test 4 the synthetic 3D Shepp-Logan phantom image is generated by the Matlab function phantom3d, released under the Gnu Public License (GPL) and available at http://www.gnu.org/copyleft/gpl.html

Permission to use, copy, or modify this dataset and its documentation for educational and research purposes only and without fee is granted, provided that this copyright notice and the original authors' names appear on all copies and supporting documentation. This dataset shall not be modified without first obtaining the permission of the authors. The authors make no representations about the suitability of this dataset for any purpose. It is provided "as is" without express or implied warranty.