

The MATLAB scripts in this directory implement the approximation methods in the paper

**Effective sparse representation of X-Ray medical images**

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To set the paths from the running directory write `P=genpath('SRXRMI'); addpath(P);`

The scripts `Test_OMP2D_SPMP2D` `Test_HBW_OMP2D_SPMP2D` and `Test_HBW_BSPMPT2D` run the tests. To change approximation quality or block size follow the instructions given inside.

The C++ MEX files are compiled in Linux. The sources are placed in a subdirectories of MEX.

A couple of images are included to run the test. The whole data set can be downloaded on

<http://www.data-compression.info/Corpora/LukasCorpus/>

The approximation of the image **lukas\_2d\_8\_hand\_1\_t.tif** is the file **Hand1\_Approx.tif** both have size **2016 x1248** pixels.