# Vector Extrapolation Methods for Accelerating Iterative Reconstruction Methods in Limited-Data Photoacoustic Tomography

This MATLAB code was used as part of the work presented in

**Navchetan Awasthi, Sandeep Kumar Kalva, Manojit Pramanik, Phaneendra K. Yalavarthy, "Vector extrapolation methods for accelerating iterative reconstruction methods in limited-data photoacoustic tomography," J. Biomed. Opt. 23(4), 041204 (2018), doi: 10.1117/1.JBO.23.4.041204.**

**Matlab Codes**: (requires [SALSA\_v2.0](http://www.google.com/url?q=http%3A%2F%2Fcascais.lx.it.pt%2F~mafonso%2Fsalsa.html&sa=D&sntz=1&usg=AFQjCNHuqiu8jZpRh85pdxtAwBJ-IBbr2w))

#generating\_data.m for generating the data for Numerical Phantoms.

#Matlab Implementation of RSD based methods(Numerical Phantoms):main\_numerical\_phantom\_rsd.m

#Matlab Implementation of TV based methods(Numerical Phantoms):main\_numerical\_phantom\_tv.m

#Matlab Implementation of RSD and TV based methods(Experimental Case):main\_experimental\_phantom\_rsd.m