Modeling errors compensation with total least squares for photoacoustic tomography

**Matlab Codes:**

**Phantom simulations**: run\_phantom.m (requires analytic\_green.m)

#Matlab Implementation of Lanczos Tikhonov: lanctik.m

#Matlab Implementation of Exponential Filtering: erresexp.m (requires exp\_svd.m)

#Matlab Implementation of Lanczos TTLS: lanczosttls\_pat.m (requires ttls\_pat.m)

#Matlab Implementation of Sparse TLS: sparse\_ttls\_tv.m (requires sparse\_tv.m and compute\_total\_variation.m)

This Matlab code is used as part of the work presented in:

Sreedevi Gutta, Manish Bhatt, Sandeep Kumar Kalva, Manojit Pramanik, and Phaneendra K. Yalavarthy, "Modeling errors compensation with total least squares for limited data photoacoustic tomography", IEEE Journal of Selected Topics in Quantum Electronics (Issue on biophotonics) 2019 (in press).

Created on: Feb 2, 2017

Modified on: May 8, 2017