Ravi Prasad K. J. Thesis Work

**Thesis Title:**

**Development of Efficient Computational Methods for Better Estimation of Optical Properties in Diffuse Optical Tomography**

The following MATLAB programs were used as a part of Ph.D. thesis submitted.

(Requires [NIRFAST](http://www.google.com/url?q=http%3A%2F%2Fwww.dartmouth.edu%2F%257Enir%2Fnirfast%2F&sa=D&sntz=1&usg=AFQjCNGy0Qj1Ase3wF2EPCnMRDNOteJ80A)):

**#**Minimal Residual Method BasedSelection of Regularization Parameter (includes reconstruction part)

**#** Generalized Cross-Validation BasedSelection of Regularization Parameter (includes reconstruction part also)

# Non-Quadrativ Penalization Reconstruction Function

# Hard-Priors reconstruction using simplex method

Objective function

Nelder-Mead Simplex implementation