Spatially Varying Regularization for Photoacoustic Tomography

**Spatially variant regularization based on model resolution and fidelity embedding characteristics improves photoacoustic tomography**

**Matlab Codes :**

#Matlab Implementation of Fidelity embedding regularization algorithm (proposed): Fidelity\_Embedding.m

#Matlab Implementation of Model-resolution regularization based algorithm (proposed): Model\_Resolution.m

#Matlab Implementation of Tikhonov based algorithm (standard): Tikhonov.m

#Matlab Implementation of TV based algorithm & data generation (standard): [Link](https://sites.google.com/site/sercmig/home/patextrapolation)

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

Dween Sanny, Jaya Prakash, Sandeep Kalva, Manojit Pramanik, and Phaneendra K. Yalavarthy, “Spatially variant regularization based on model resolution and fidelity embedding characteristics improves photoacoustic tomography," Journal of Biomedical Optics, (Accepted with Minor revisions).

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