

Interactive comment on “Toward the assimilation of images” by F.-X. Le Dimet et al.

Anonymous Referee #1

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The paper constitutes a review of state of the art of data assimilation of images.

It is well written by the leading expert in the field and addresses itself to a broad audience.

I would appreciate if the topics of data assimilation in medicine namely medical Imaging that investigates processes in the brain by techniques such as MRI, EEG, MEG and many more could be briefly addressed. Usually dynamical models based on finite element discretisation approaches are coupled with data by inversion and data assimilation.

The same relates to image reconstruction from noisy data that is an important inverse problem. where Electrical Impedance Tomography (EIT) can be used.

Otherwise a very good review that should be published.

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See for instance :

D. Chapelle, M. Fragu, V. Mallet, P. Moireau: Fundamental principles of data assimilation underlying the Verdandi library: applications to biophysical model personalization within euHeart. Medical & Biological Engineering & Computing Vol. 51 (2013) 1221-1233

Interactive comment on Nonlin. Processes Geophys. Discuss., 1, 1381, 2014.