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Wavelet Frame Based Poisson Noise Removal and Image Deblurring

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Highlights

- A nonconvex and non-continuous regularized variational model is proposed to recover the Poisson noisy and blurred image.
- The proposed nonconvex model improves the quality of restored Poisson noisy and blurred image compared with the convex models such as total variation based model and L_1 tight wavelet frame based model.
- The proposed algorithm is efficient to implement and produces more accurate solution.
- Convergence and stability of the proposed algorithms are verified from the numerical perspective.

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