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ALTERNATING DIRECTION METHOD OF MULTIPLIERS FOR BLIND IMAGE DEBLURRING WITH UNKNOWN BOUNDARIES

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ABSTRACT

Now days, deblurring plays a vital role in all image processing tasks. Blind image deblurring (BID), can be solved by imposing some form of regularization (prior knowledge) on the unknown blur and original image. Here we introduce a new version, in which both the optimization problems with respect to the unknown image and with respect to the unknown blur are solved by the alternating direction method of multipliers (ADMM) – an optimization tool that has recently sparked much interest for solving inverse problems, namely due to this efficiency and less complexity. This algorithm also gets better results or realistic case of blind deblurring with unknown boundary conditions. Experiments with synthetic and real blurred images show the competitiveness of the proposed method, both in terms of speed and restoration quality.

KEYWORDS: Alternating Direction Method of Multipliers (ADMM), Blind Deblurring, Blind Deconvolution, Non Blind Image Deconvolution (NBID)

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