Separation and restoration of texts in documents through ICA techniques

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We consider the problem of extracting clean images from noisy mixtures of images degraded by blur operators. This special case of sources separation arises, for instance, when analyzing document images showing bleed-through or show-through. In this presentation we propose to integrate demixing and deblurring. We define the solution of the problem as the minimum of an energy function. Assuming the knowledge of the blur operators, we adopt edge-preserving energy functions. Experimental results confirm the goodness of the proposed techniques.