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image denoising problem,  
where zero-mean white  
and homogeneous  
Gaussian additive noise is  
to be removed from a  
given image. The  
approach taken is based  
on sparse and redundant  
representations over  
trained dictionaries.Image  
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Redundant  
Representations ...Sparse  
decomposition Noiseless  
observations. Consider a  
linear system of equations  
 $\mathbf{y} = \mathbf{D}\mathbf{x} + \mathbf{n}$ , where  $\mathbf{x}$  is an

underdetermined  $\times$   
matrix ( $\mathbf{D}$ ) and  $\mathbf{x} \in \mathbb{R}^n$ . The  
matrix (typically assumed  
to be full-rank) is referred  
to as the dictionary, and is  
a signal of interest. The  
core sparse  
representation problem is  
defined as the quest for  
the sparsest possible  
representation satisfying  
 $\mathbf{y} = \mathbf{D}\mathbf{x}$ . Sparse approximation -  
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the method via sparse and redundant

representations over learned dictionaries, called K-SVD [1]. This method is performed to remove the additive noise. Huang et al. attempted to use the K-SVD method [2] for multiplicative noise removal which followed. It was proven that K-SVD method could perform well just by transforming the multiplicative  
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