Abstract

In this study, alternative application of bilateral filter for image deblurring and enhancement is discovered. The concept of Total variation model is added to BF. Based on analyzing force distribution rules of variance, standard deviation is managed to distinguish degree of degrade. The optimization solution of total variation is gained by tracking minimum change channels and keep maximum edges. Experimentation proves that the new V-ABF can solve the deblurring problem where original BF is solution for de-noising.

References

ICSEM-13, 2013.

Index Terms

Computer Science

Pattern Recognition

Keywords
Variance adaptive bilateral filter  de-blurring  restoration  smoothing  sharpening

filtering

total variance