

Binarized-Weight Bilateral Filter for Low Computational Cost Image Smoothing

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Abstract : We propose a simplified bilateral filter with binarized coefficients for accelerating it. Its computational cost is further decreased by sampling pixels. This computationally low cost filter is useful for smoothing or denoising images by using mobile devices with limited computational power.

Keywords : bilateral filter, binarized-weight bilateral filter, image smoothing, image denoising, pixel sampling

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