Patch Size

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It's fattal of the estimation of transmission map for the image dehazing, the equation as you see at (1).

$$\tilde{t}(x) = 1 - \min_{y \in \Omega(x)} (\min_{c} \frac{I^{c}(y)}{A^{c}})$$
(1)

And in fact, another key parameter in the algorithm is the patch size in (1). On one hand, the dark channel prior becomes better for a larger patch size because the probability that a patch contains a dark pixel is increased. We can see at the Fig.1: the larger the patch size, the darker the dark channel.







Figure 1: A haze-free image and its dark channels using 3×3 and 15×15 patches, respectively.