
Supplemental images for Regularized estimation of image statistics by Score Matching

Diederik P. Kingma

Department of Information and Computing Sciences
Universiteit Utrecht
`d.p.kingma@students.uu.nl`

Yann LeCun

Courant Institute of Mathematical Sciences
New York University
`yann@cs.nyu.edu`

1 Denoised images

For illustrative purposes, the original, noisy and denoised images of a detail of the Lena image are shown below. It can be seen that when our model is applied to denoising, the image is not over-smoothed (like with CD-1) or under-smoothed (like with Basis Rotation).



Figure 1: Center of original Lena image



Figure 2: Image with some Gaussian noise added ($\sigma_{noise} = 5/256$).



Figure 3: Denoised with Roth et al model (CD-1).



Figure 4: Denoised with the Basis Rotation model.



Figure 5: Denoised with our model (regularized Score Matching).