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Noise robust single image super-resolution using a multiscale image pyramid

Jing Hu , Xi Wu , Jiliu Zhou

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Highlight:

- A noise-robust self-learning-based super resolution (SLSR) method is proposed
- The fundamental cause of noise amplification problem in SLSR is analyzed
- Patchwise high-order mapping function is obtained to synthesis fine details
- A joint interpolation and denoising method is proposed and embedded with SLSR

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