

## Appendix



Fig. 8 Visual effects of SWCNN for different transparency in image watermark. (a) SWCNN with transparency of 0.3 (41.33dB), (b) SWCNN with transparency of 0.5 (35.92dB), (c) SWCNN with transparency of 0.7 (33.59dB) and (d) SWCNN with transparency of 1 (26.07dB).

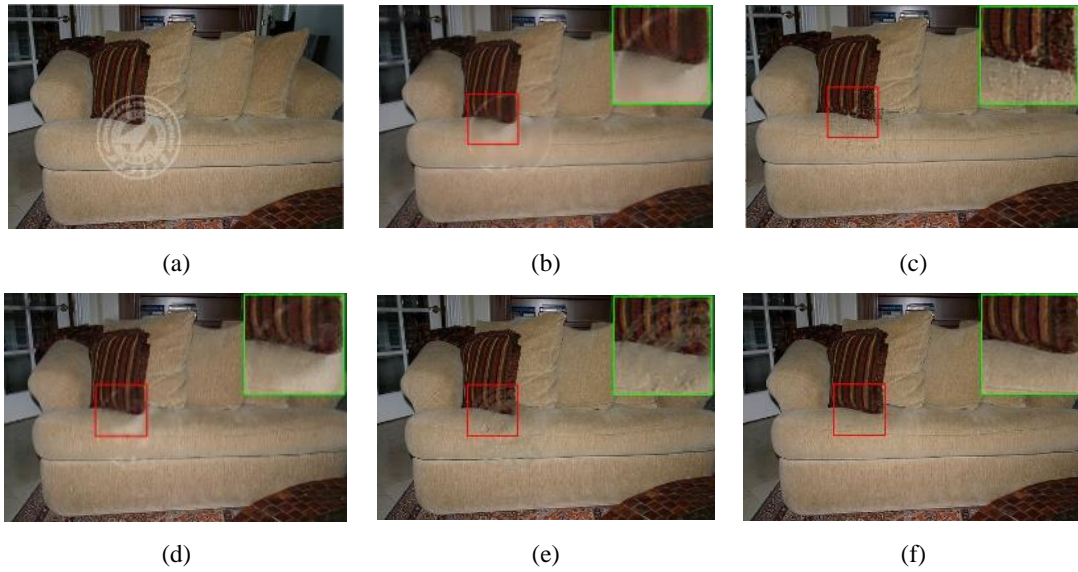


Fig. 9 Visual effects of different methods with transparency of 0.3 for image watermark. (a) Watermark image (29.88dB), (b) FFDNet (29.43dB), (c) DIP (34.88dB), (d) WGAN-GP (30.59dB), (e) DnCNN (33.48dB) and (f) SWCNN (Ours) (43.94dB).

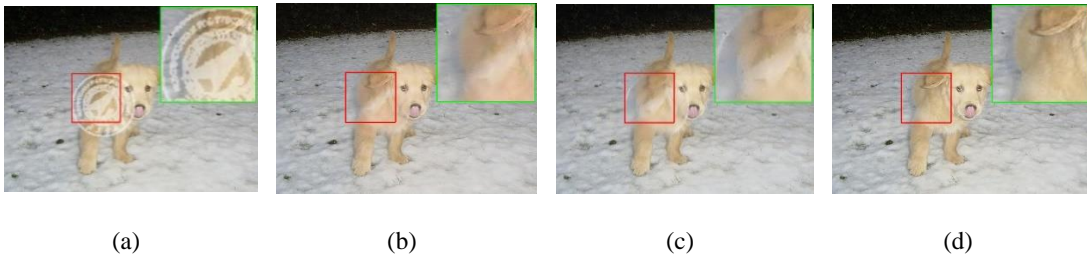


Fig. 10 Visual effects of different methods with transparency of 0.5 for image watermark. (a) Watermark image (29.74dB), (b) DnCNN (34.93dB), (c) FFDNet (31.72dB) and (d) SWCNN (Ours) (43.90dB).