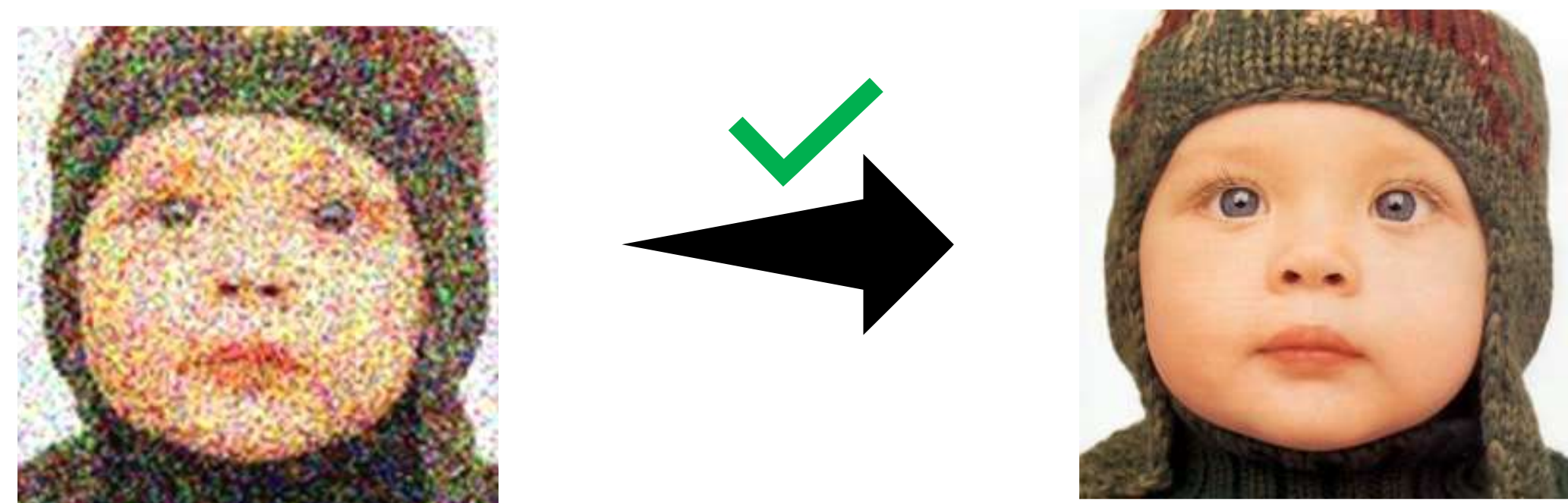


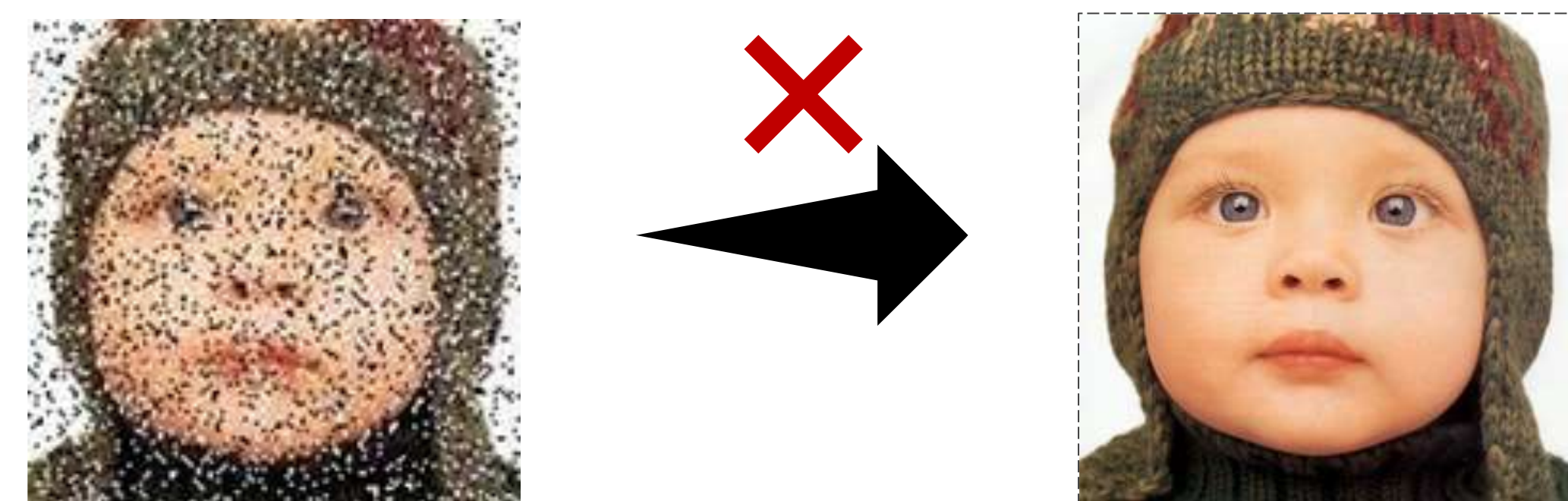


Existing Methods

Seen distribution

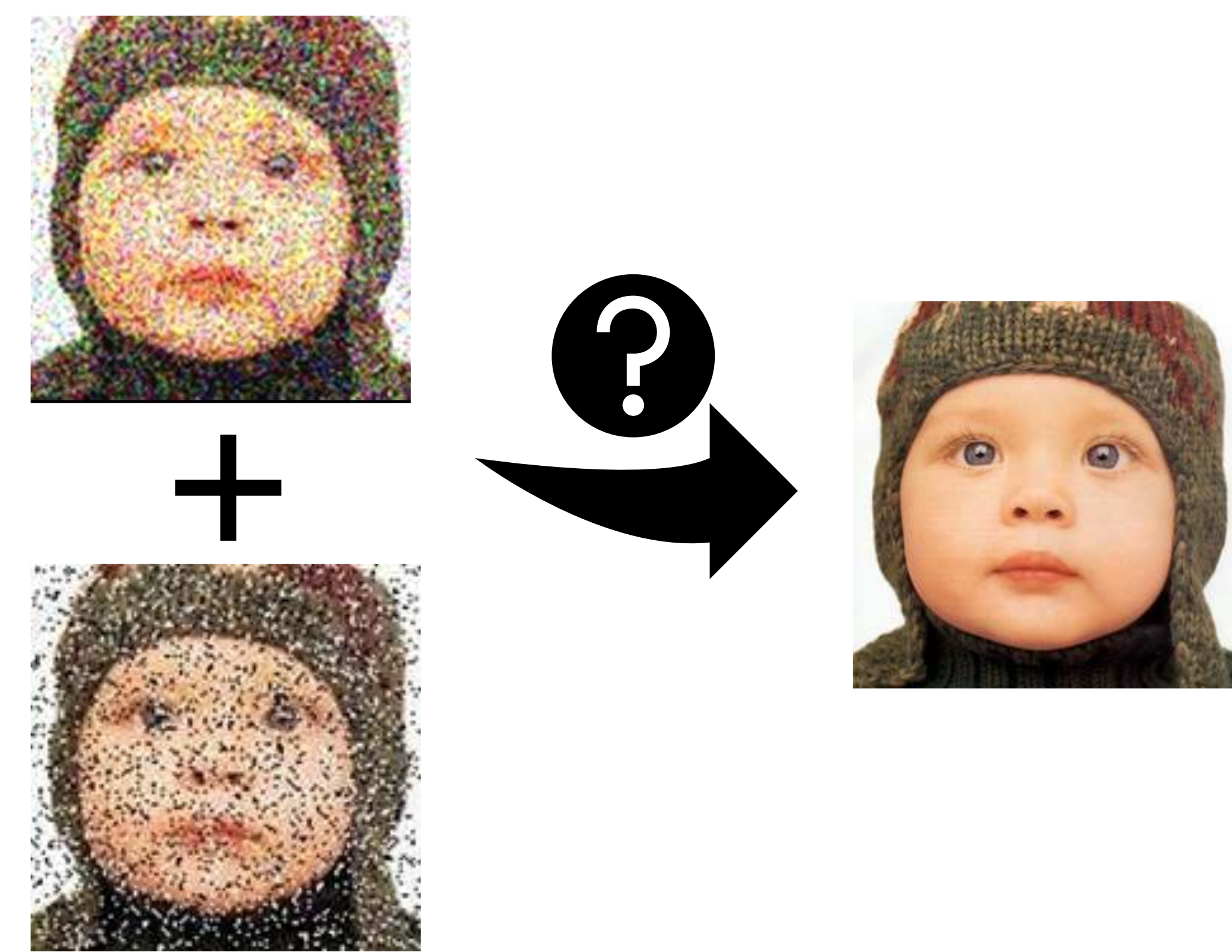


Unseen distribution

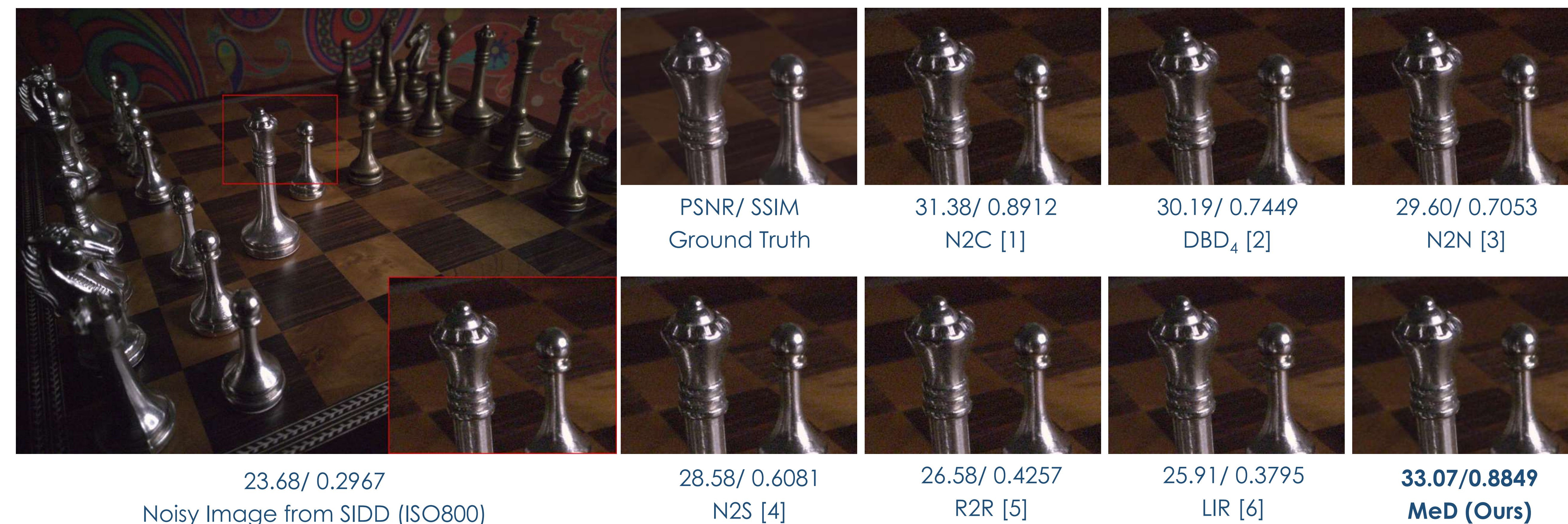


Motivation

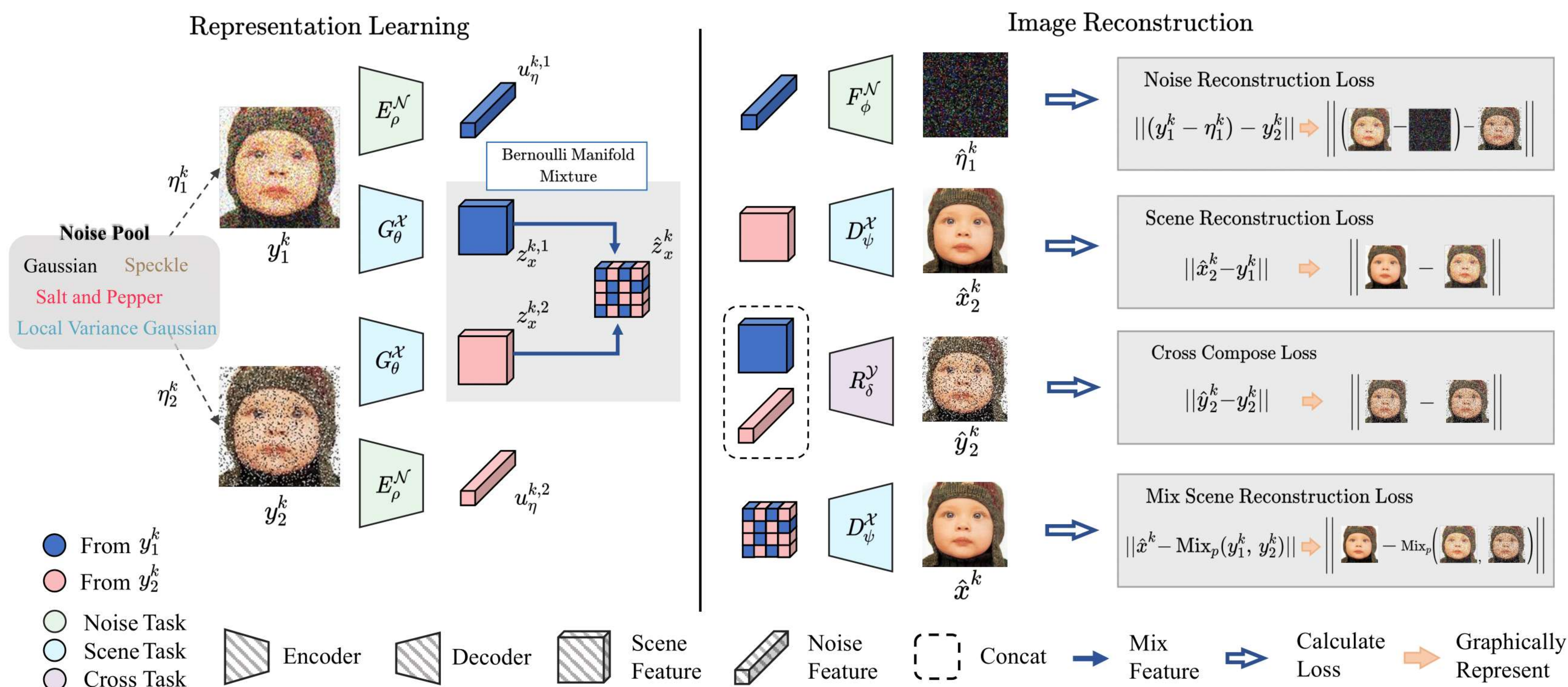
Different noisy views share the same clean latent



Performance

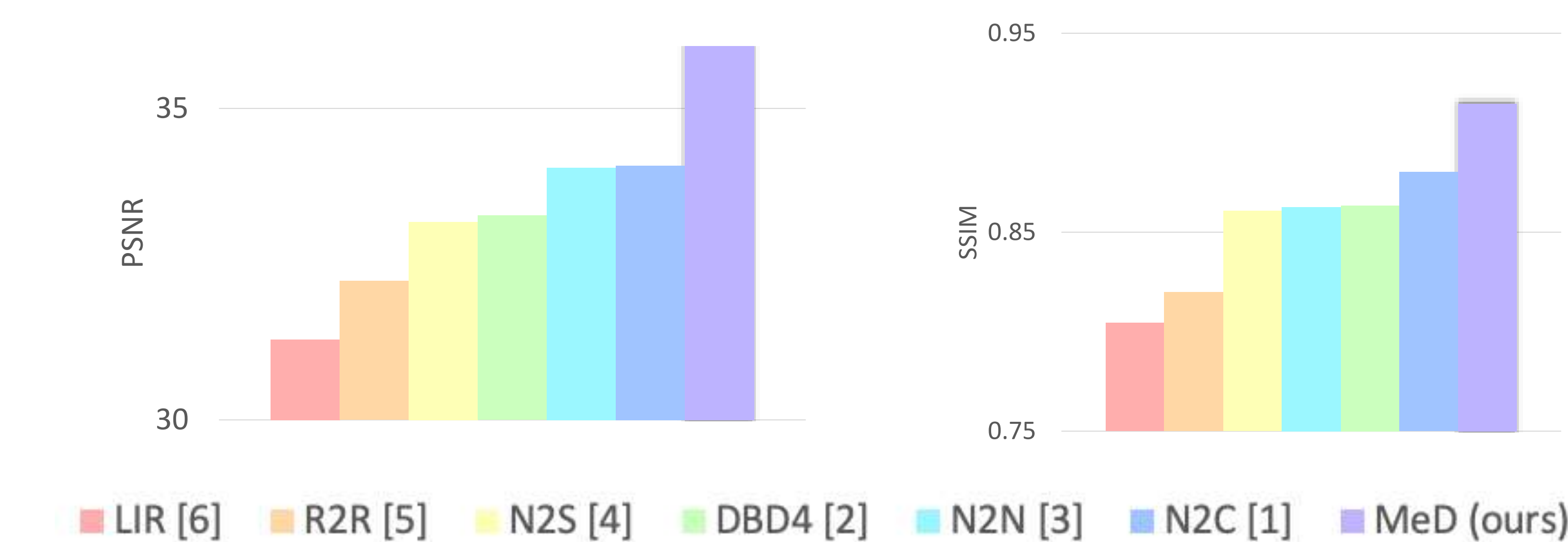


Overview



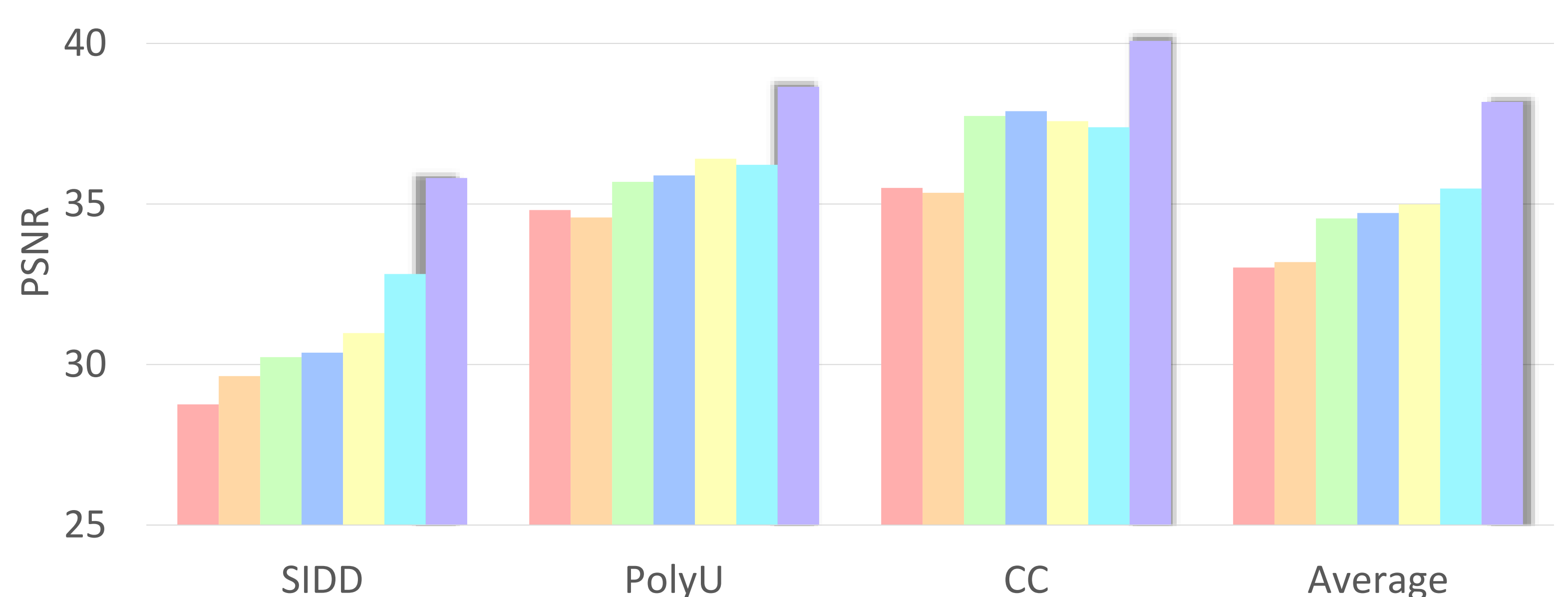
Noise Pool on CBSD68

All the methods are trained with randomly drawn noise from the Noise Pool



Generalisation to real-world noise

All the methods are trained with Noise Pool on DIV2K



References

- [1] Liu, Ze, et al. "Swin transformer: Hierarchical vision transformer using shifted windows." ICCV. 2021.
- [2] Godard, Clément, Kevin Matzen, and Matt Uyttendaele. "Deep burst denoising." ECCV. 2018.
- [3] Lehtinen, Jaakko, et al. "Noise2Noise: Learning image restoration without clean data." arXiv preprint arXiv:1803.04189 (2018).
- [4] Batson, Joshua, and Loic Royer. "Noise2self: Blind denoising by self-supervision." ICML. 2019.
- [5] Pang, Tongyao, et al. "Recorrputed-to-recorrputed: Unsupervised deep learning for image denoising." CVPR. 2021.
- [6] Du, Wenchao, Hu Chen, and Hongyu Yang. "Learning invariant representation for unsupervised image restoration." CVPR. 2020.