Conditional Generation for Inverse Problems and Class/Text-Based Conditioning

Adam Imdieke (imdie022@umn.edu)

A. Posterior Samplers for Inverse Problems

   1) A: Predict $\hat{x}_0$ and sample ddim:
   2) B: Implement and compare posterior samplers:
   3) C: Manifold Constrained Gradient (MCG):
   4) D: Denoising Diffusion Null-Space Model (DDNM):

   5) E: Noisy measurements and Diffusion Posterior Sampling (DPS):
   6) F: Diffusion Posterior Sampling (DPS) for noisy measurements: