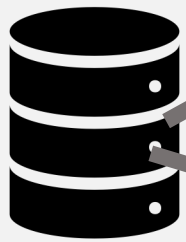


Deep learning meets physics for image defogging

Optical Media Interface Laboratory

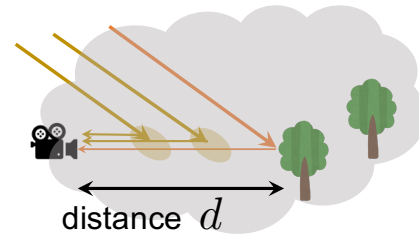
Physics-based model

Dataset



Atmospheric scattering model

$$I = J e^{-\beta d} + A(1 - e^{-\beta d})$$



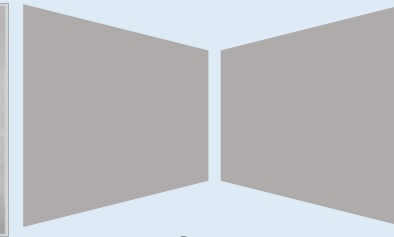
$$I = J e^{-\beta d} + A(1 - e^{-\beta d})$$



Deep Learning



Input:
foggy image



CNN



Output:
clear image



Defogging in real scenes