Theme for Final Report

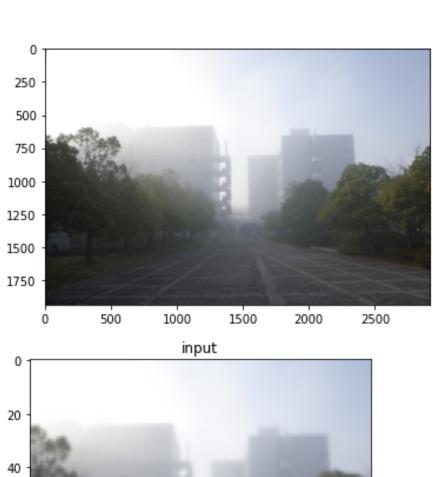
John Benedict Du

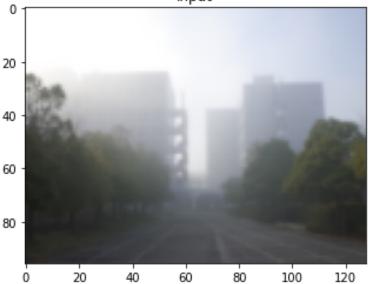
About the Project

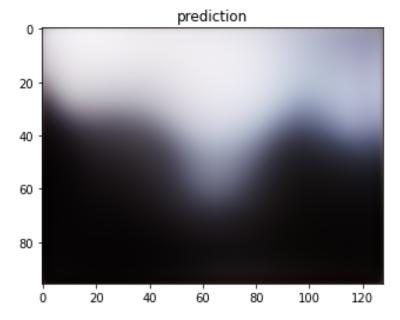
Goal: Improvement of Defogging

OBJECTIVES

- Use RESIDE Dataset
- Principled S2R Dehazing Framework
- AECR-Net as the Backbone







RESIDE Dataset



Outdoor Training Set

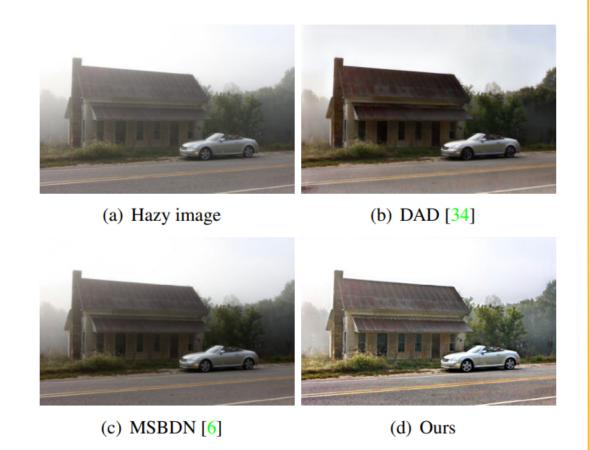
Dataset Examples:

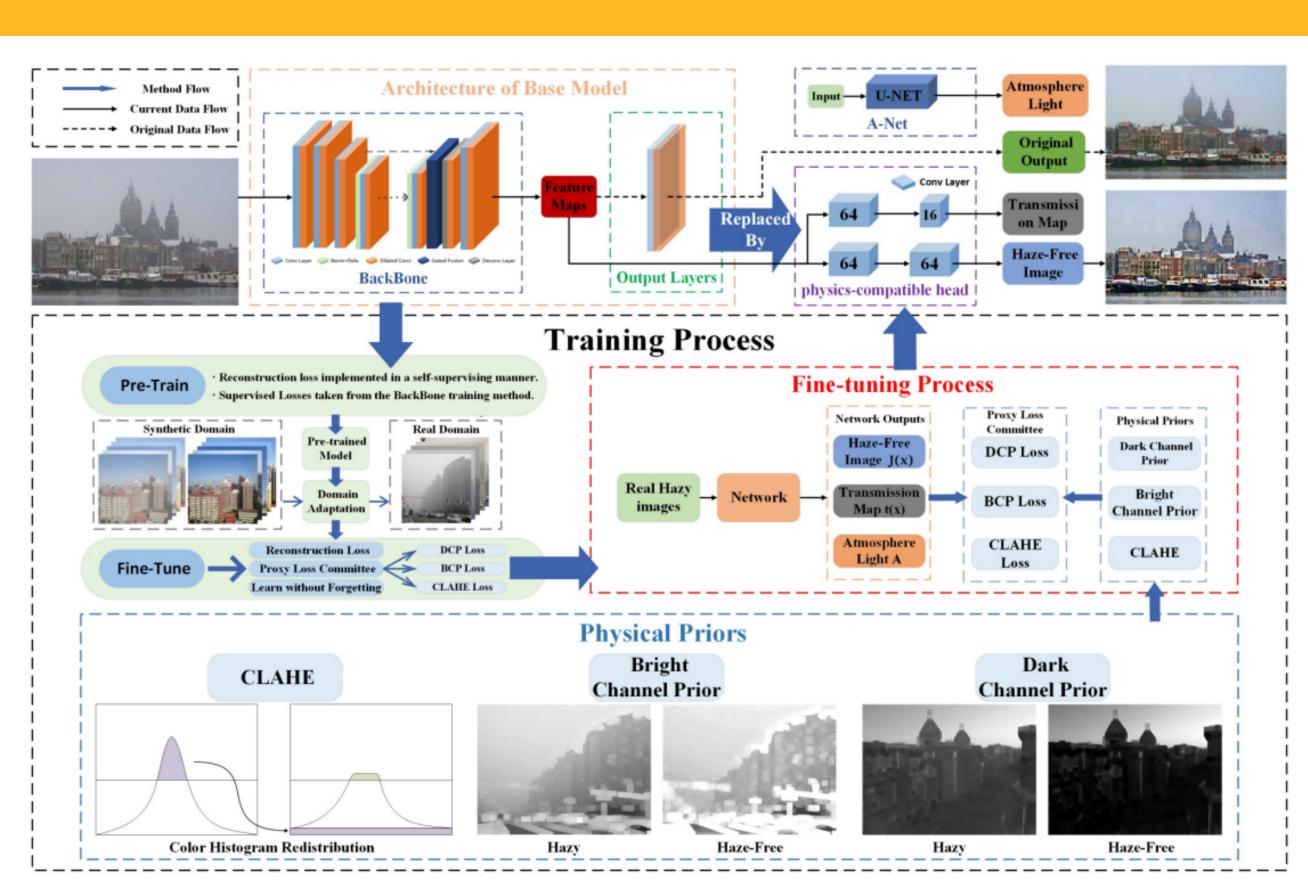


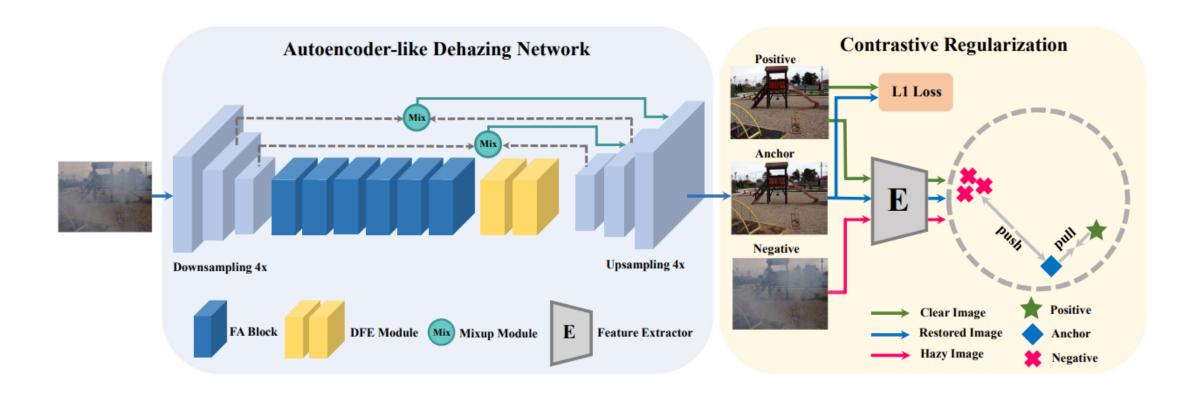
OTS

Principled S2R Dehazing

Framework applicable to generalize most of the existing dehazing models to the real domain.







AECR-Net



Single image dehazing, which consists of contrastive regularization (CR) and autoencoder-like (AE) network.





- (d) KDDN [23]
- (e) Our CR
- (f) Ground-truth

Figure 1. Comparison with only positive-orient supervision.

Project Plan

JAN 8 - 11	JAN 12 - 14	JAN 15 - 17	JAN 18 - 19	JAN 20 - 21
Setup Local Python Environment	Study & Get AECR- Net to Work		Testing & Debugging	
Download RESIDE Dataset	Study & Get Principled S2R Dehazing to Work		Data Gathering	
	Modify AECR-Net to work as PSD backbone		Code Clean Up & Documentation	
	S C S S S S S S S S S S S S S S S S S S	Train with Model RESIDE Dataset		Final Report

Thank you!

References

- RESIDE
 - https://sites.google.com/view/reside-dehaze-datasets/
- AECR-Net
 - https://github.com/GlassyWu/AECR-Net/
- PSD
 - https://github.com/zychen-ustc/PSD-Principled-Synthetic-to-Real-Dehazing-Guided-by-Physical-Priors

