NAFSSR: Stereo Image Super-Resolution Using NAFNet

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Winner of NTIRE 2022 Challenge on Stereo Image Super-Resolution

Methodology:
- NAFSSR Pipeline
- NAFNet's Block (NAFBlock)
  - SimpleGate(X)
  - Stereo Cross Attention Module (SCAM)
  - Channel Attention

Summary:
- NAFSSR
  - Single View: NAFNet Block [1]
  - Cross-view: Stereo Cross Attention Module
- Training Tricks
  - Data augmentation: flip +RGB shuffle
  - Regularization: stochastic depth [2]
- Inference Tricks
  - Test-time Local Statistics Converter [3]

Code: github.com/megvii-research/NAFNet

References

Results:
- Runtime Efficiency
- Parameter Efficiency and Scaling Ability

Visual Results:
- Visual Results