1. Fusing multiple frames:
- Our problem:
  - Inputs: multiple aligned frames with missing regions
  - Output: fused frame

2. Design choices for fusing multiple frames
- Image (late fusion): Sharp contents ✓ Visible artifacts ×
- Feature (early fusion): Alleviates artifacts ✓ Blurry results ×

3. Results: State-of-the-art Full-Frame Video Stabilization
- FuSta does not suffer from aggressive cropping of frame borders and renders stabilized frames with significantly fewer artifacts.

Hybrid Neural Fusion for Full-frame Video Stabilization
Yu-Lun Liu¹  Wei-Sheng Lai²  Ming-Hsuan Yang²,⁴,⁵  Yung-Yu Chuang¹  Jia-Bin Huang³
¹National Taiwan University  ²Google  ³Virginia Tech  ⁴UC Merced  ⁵Yonsei University

Adobe Premiere Pro 2020
DIFRINT
Aggressive cropping of frame borders ×
Artifacts ×

FuSta achieves the best average score with no cropping for all the videos.