











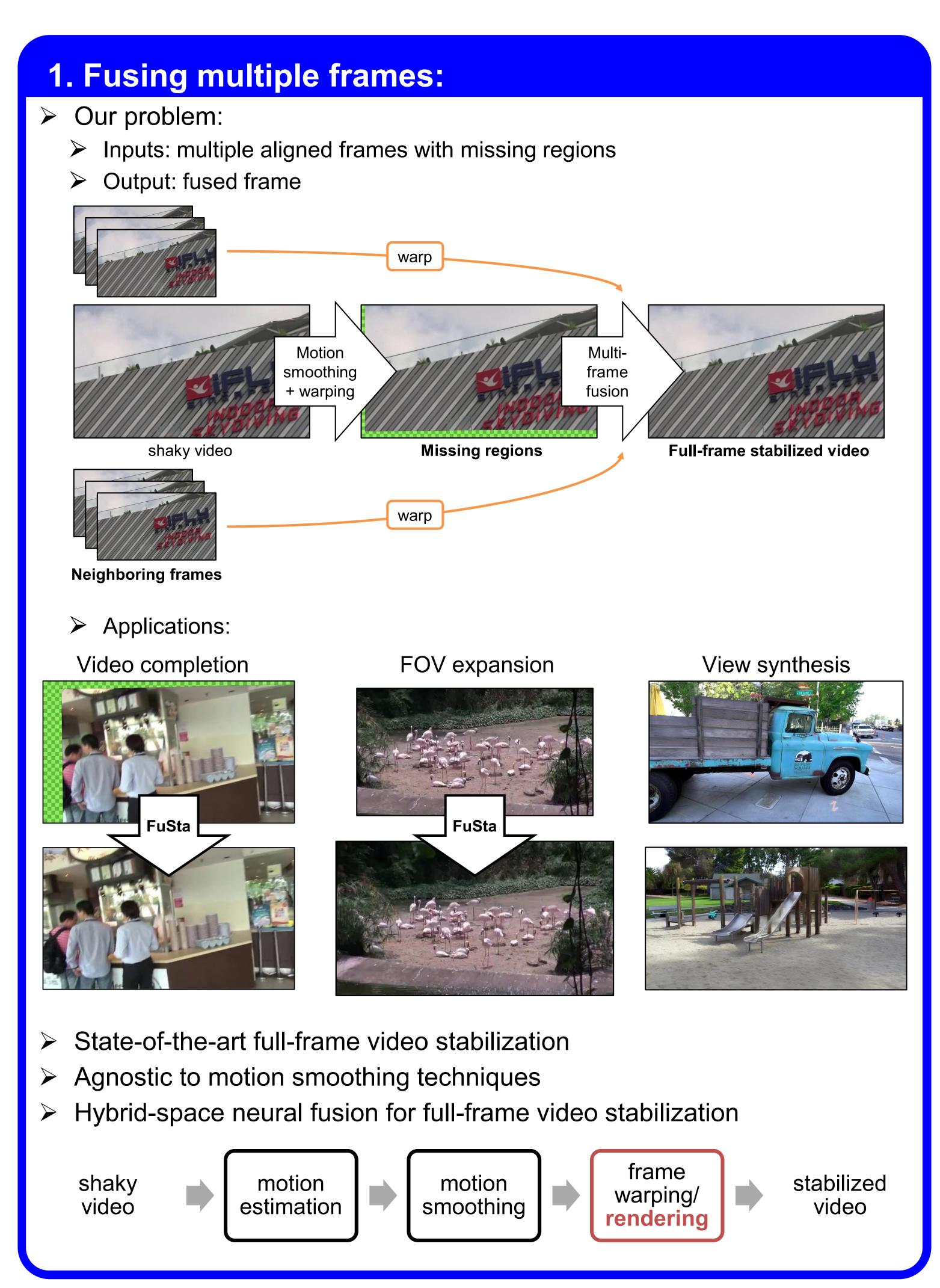
alex04072000.github.io/FuSta

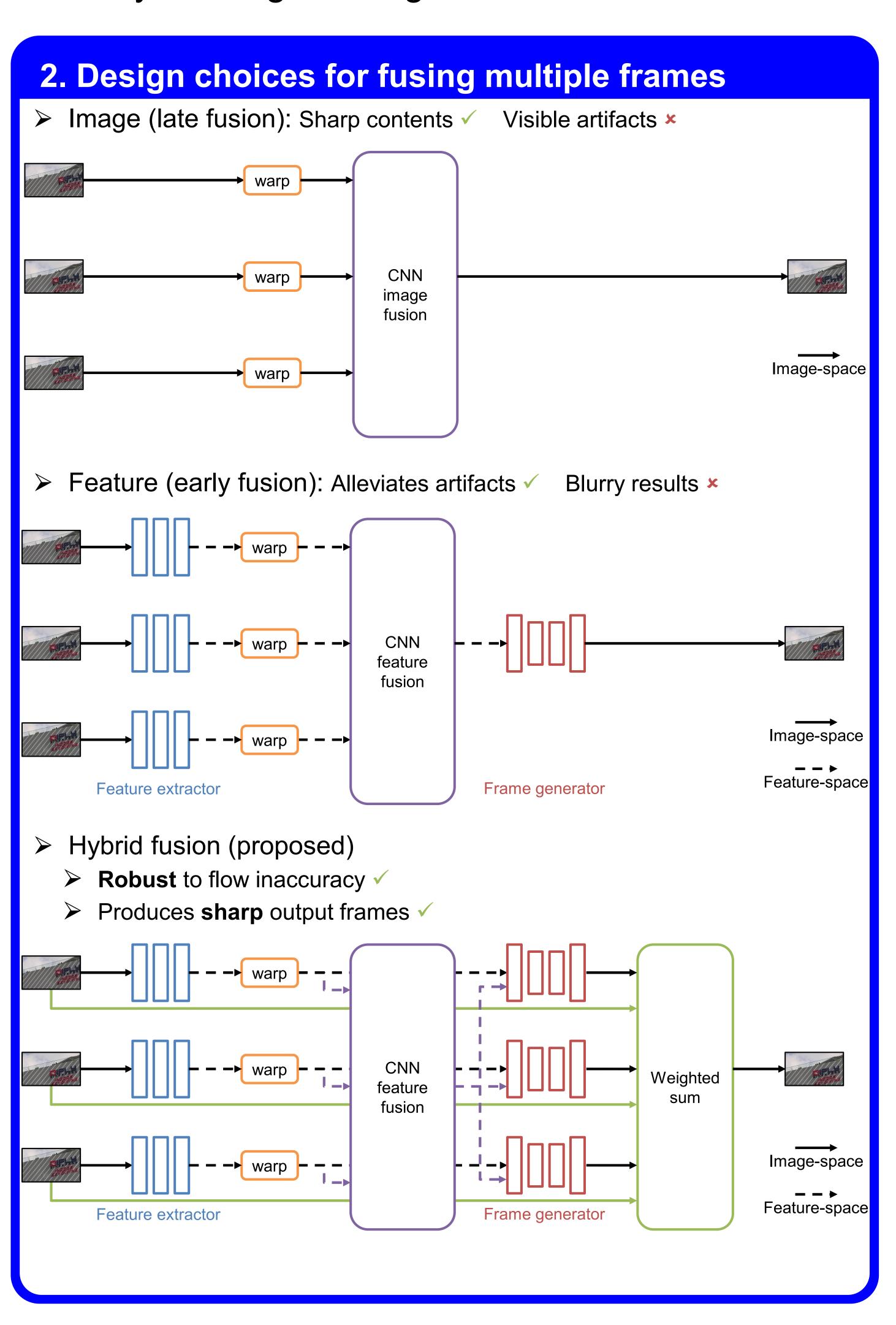
FuSta

Hybrid Neural Fusion for Full-frame Video Stabilization

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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.

FuSta

Adobe Premiere Pro 2020

DIFRINT





Aggressive cropping of frame borders *

Artifacts *

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

	NUS				Selfie				DeepStab			
	C ↑	D ↑	S ↑	A↓	C ↑	D ↑	S ↑	A↓	C ↑	D ↑	S↑	A↓
Bundle	0.84	0.93	0.89	0.78	0.68	0.82	0.85	0.84	0.76	0.91	0.84	0.56
L1Stabilizer	0.74	0.92	0.89	0.88	0.75	0.92	0.85	0.84	0.74	0.92	0.85	0.70
StabNet (online method)	0.66	0.88	0.82	1.02	0.70	0.78	0.83	0.83	0.65	0.86	0.80	0.80
DIFRINT	1.00	0.96	0.83	0.87	1.00	0.87	0.85	0.72	1.00	0.94	0.78	0.78
Yu and Ramamoorthi, 2020	0.86	0.91	0.85	0.88	0.78	0.79	0.87	0.77	0.82	0.92	0.81	0.72
Yu and Ramamoorthi, 2018	-	-	-	-	0.85	0.91	0.88	0.76	_	-	-	_
Adobe Premiere Pro 2020	0.74	0.82	0.87	0.84	0.71	0.80	0.84	0.79	0.73	0.87	0.83	0.78
FuSta	1.00	0.96	0.85	0.77	1.00	0.87	0.87	0.64	1.00	0.96	0.81	0.64