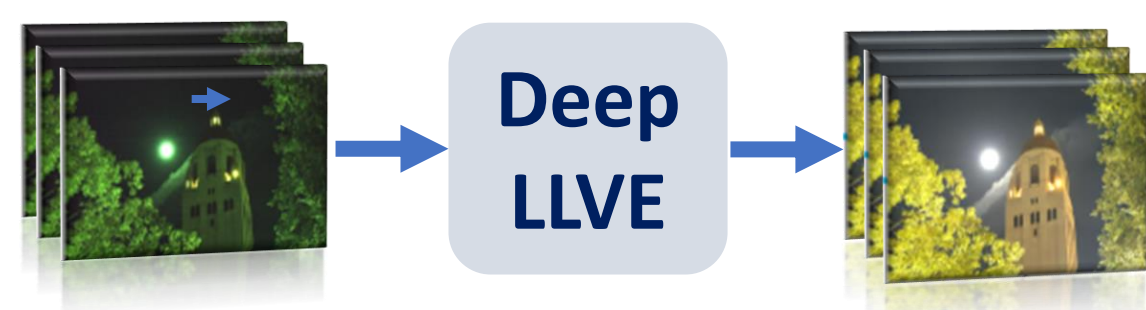


## Existing Low-Light Video Enhancement Approaches

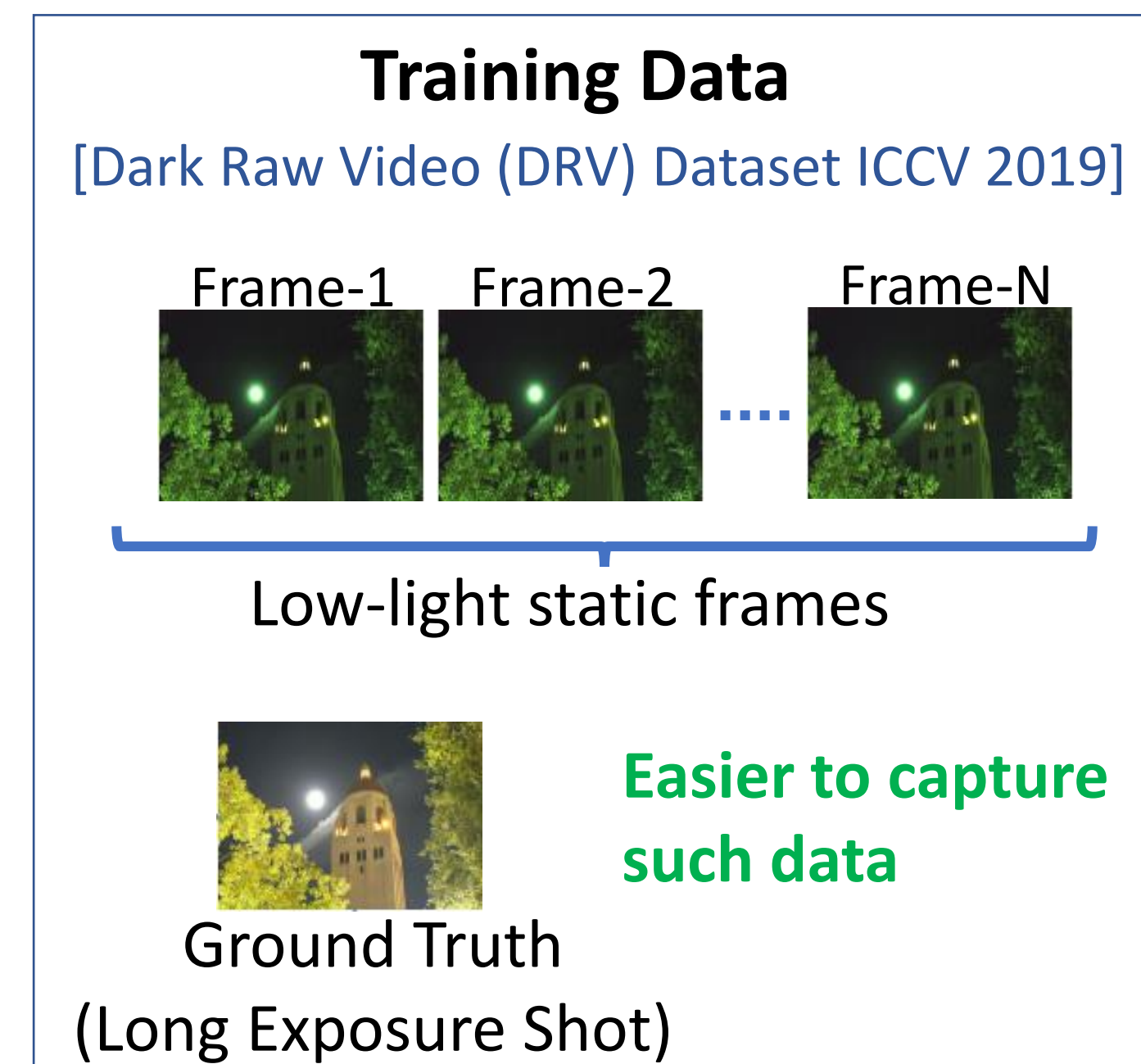
### Multi-Frame Input Model

[MBLLEN Feifan et al. BMVC2018] [FastDVDnet M Tassano et al. CVPR2020]



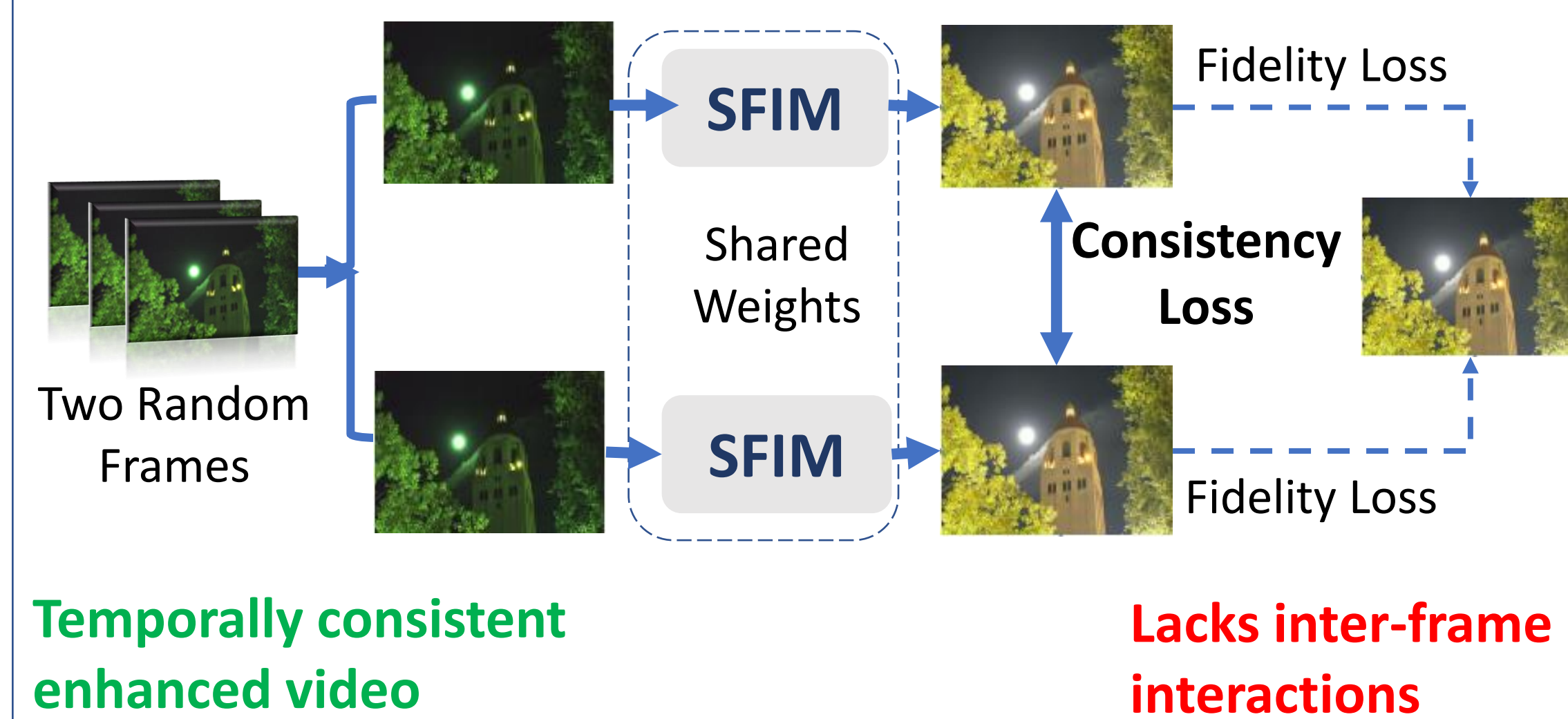
- Difficult to capture aligned dynamic Low-light and ground truth video pairs - Uses synthetic data

### Static Video Data Approach

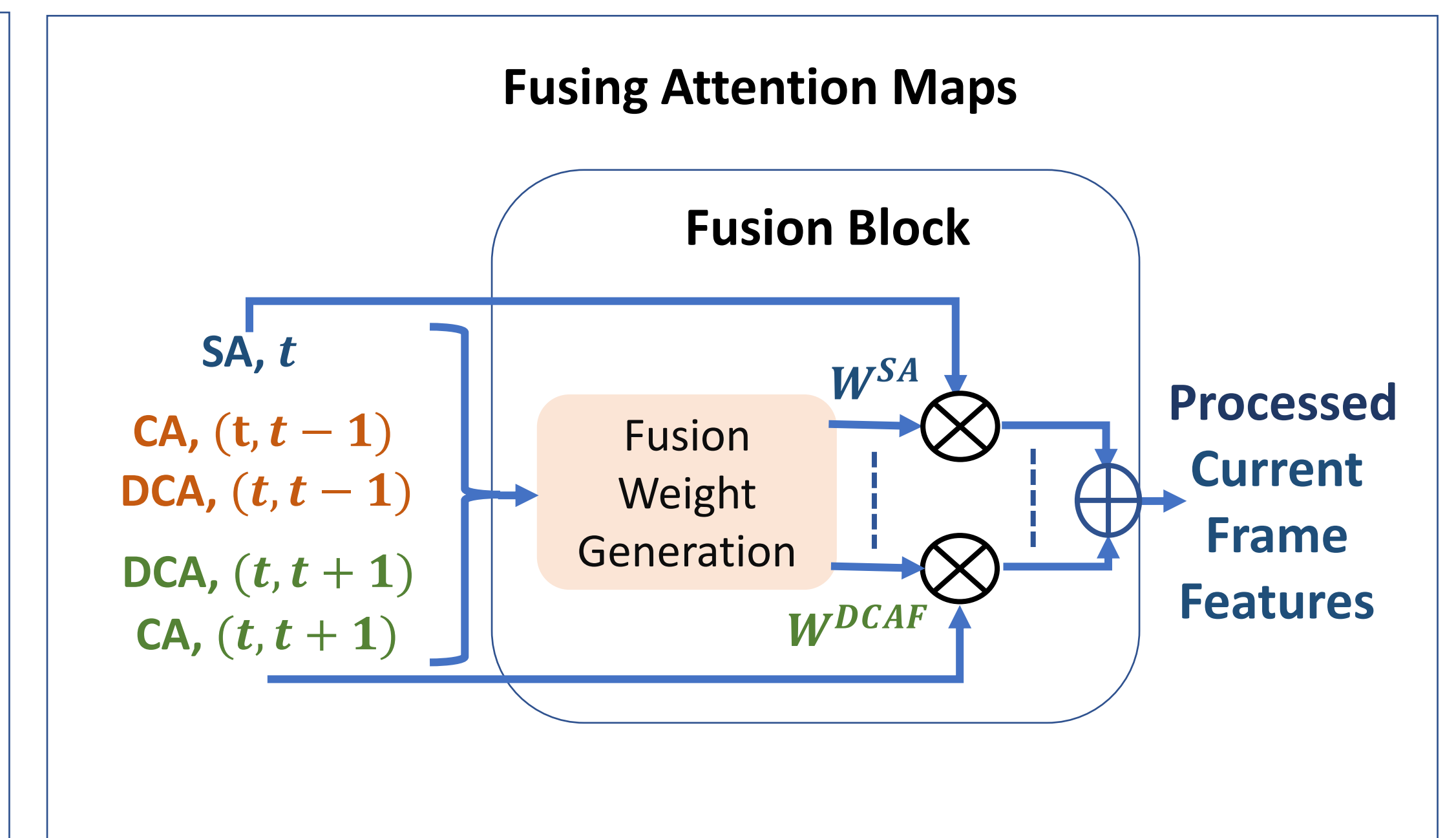
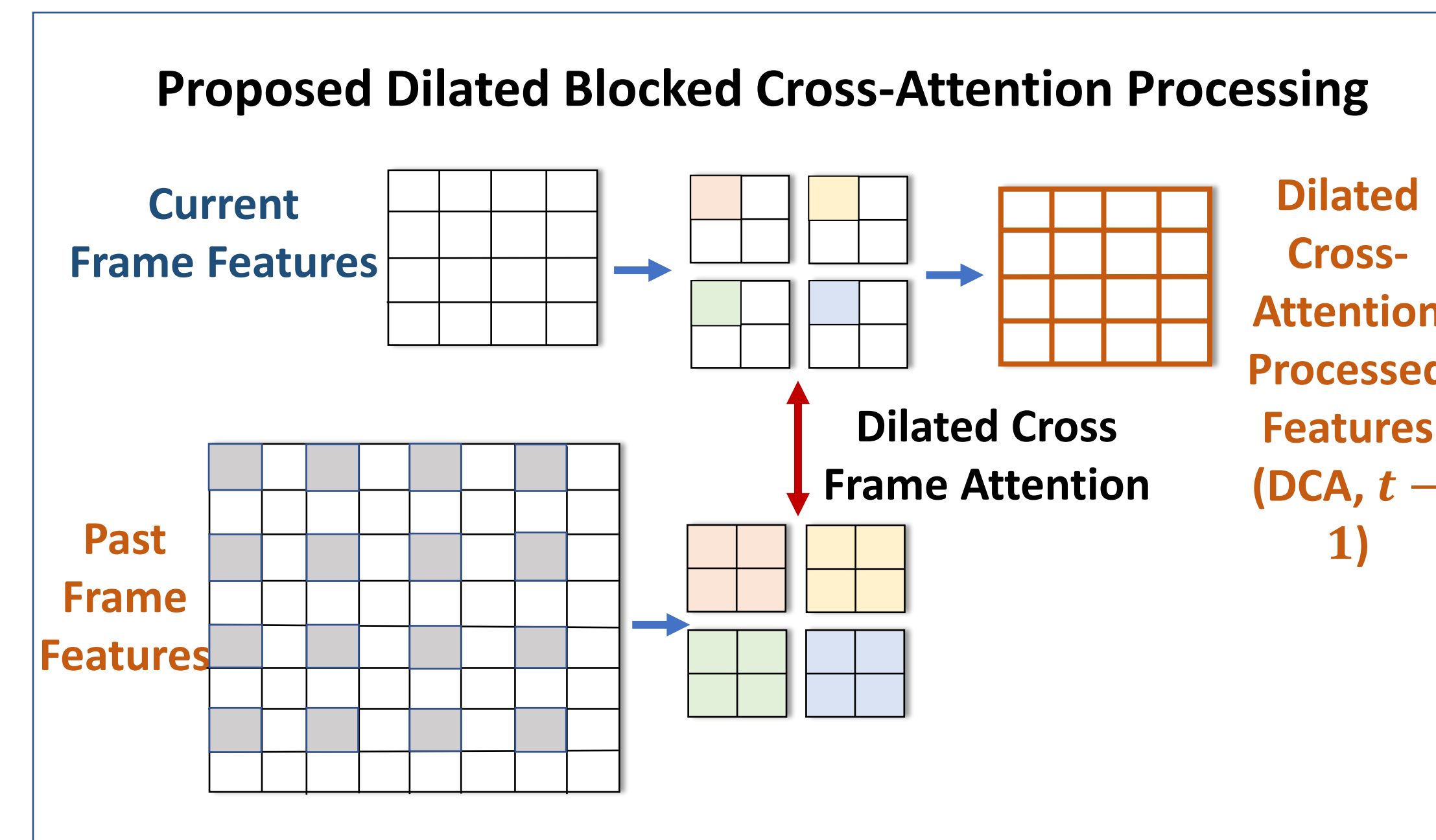
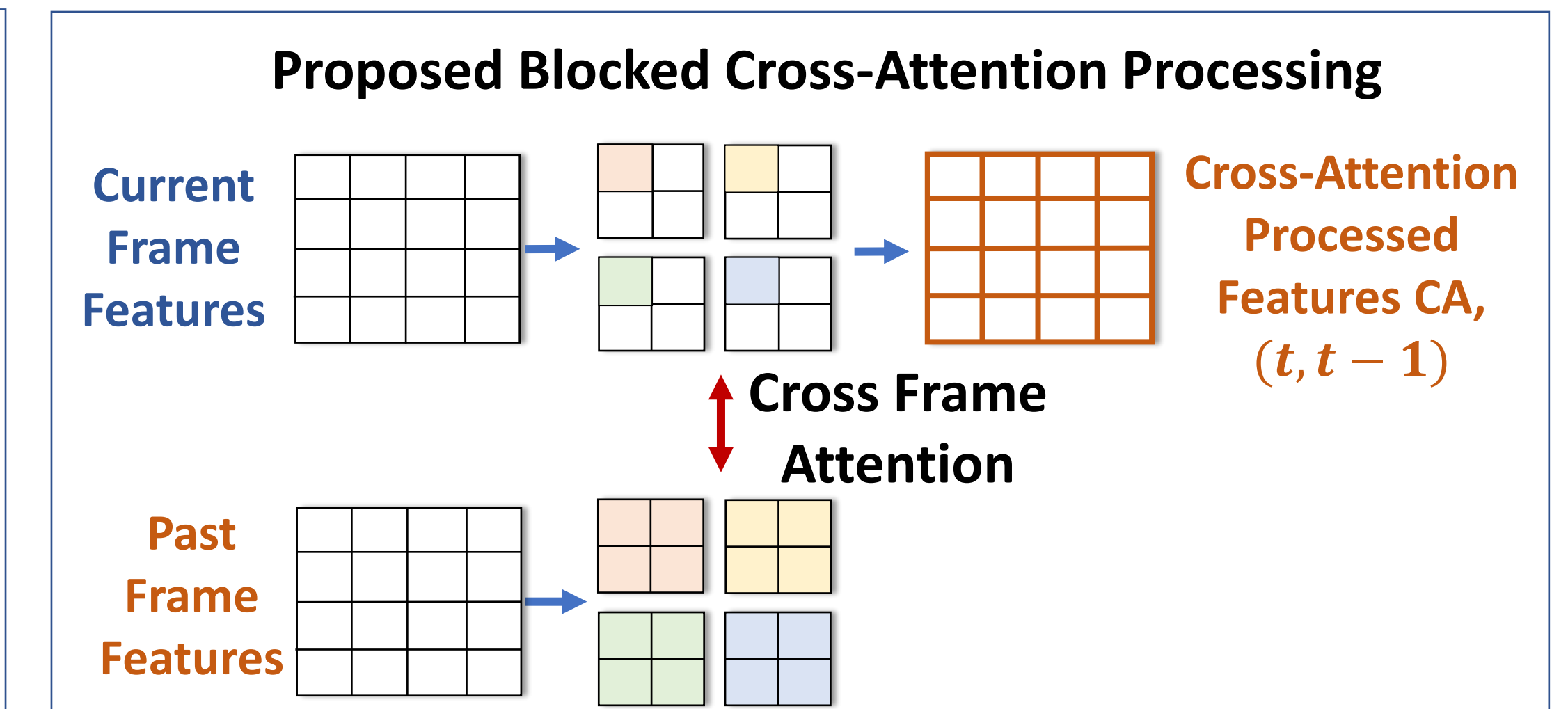
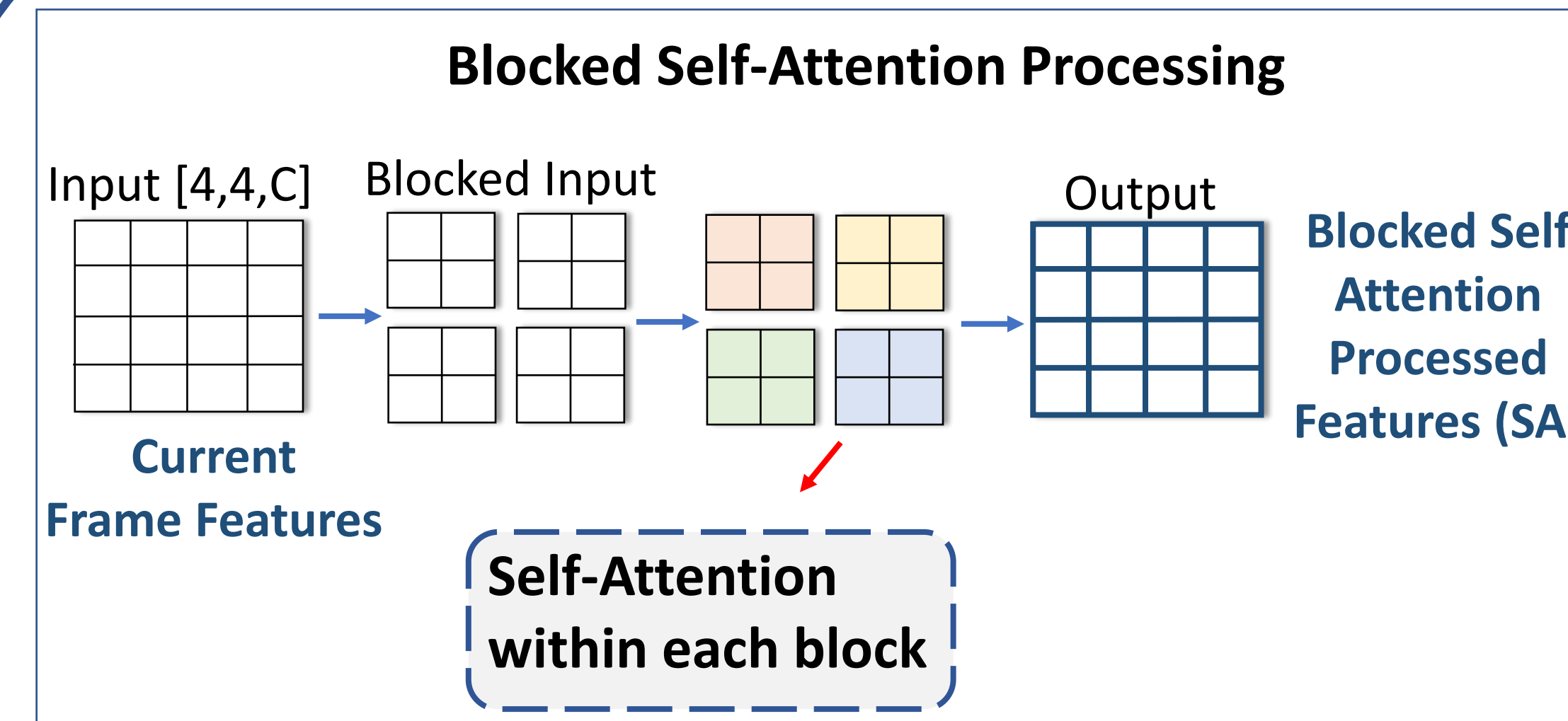


### Single Frame Input Model (SFIM) for Training with Static Data

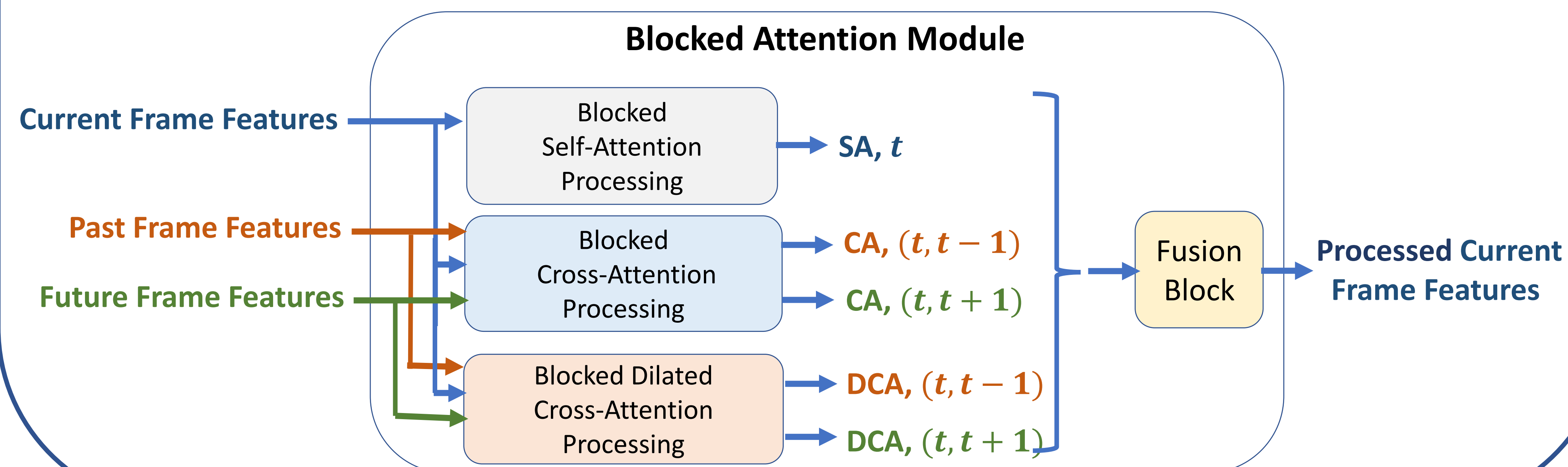
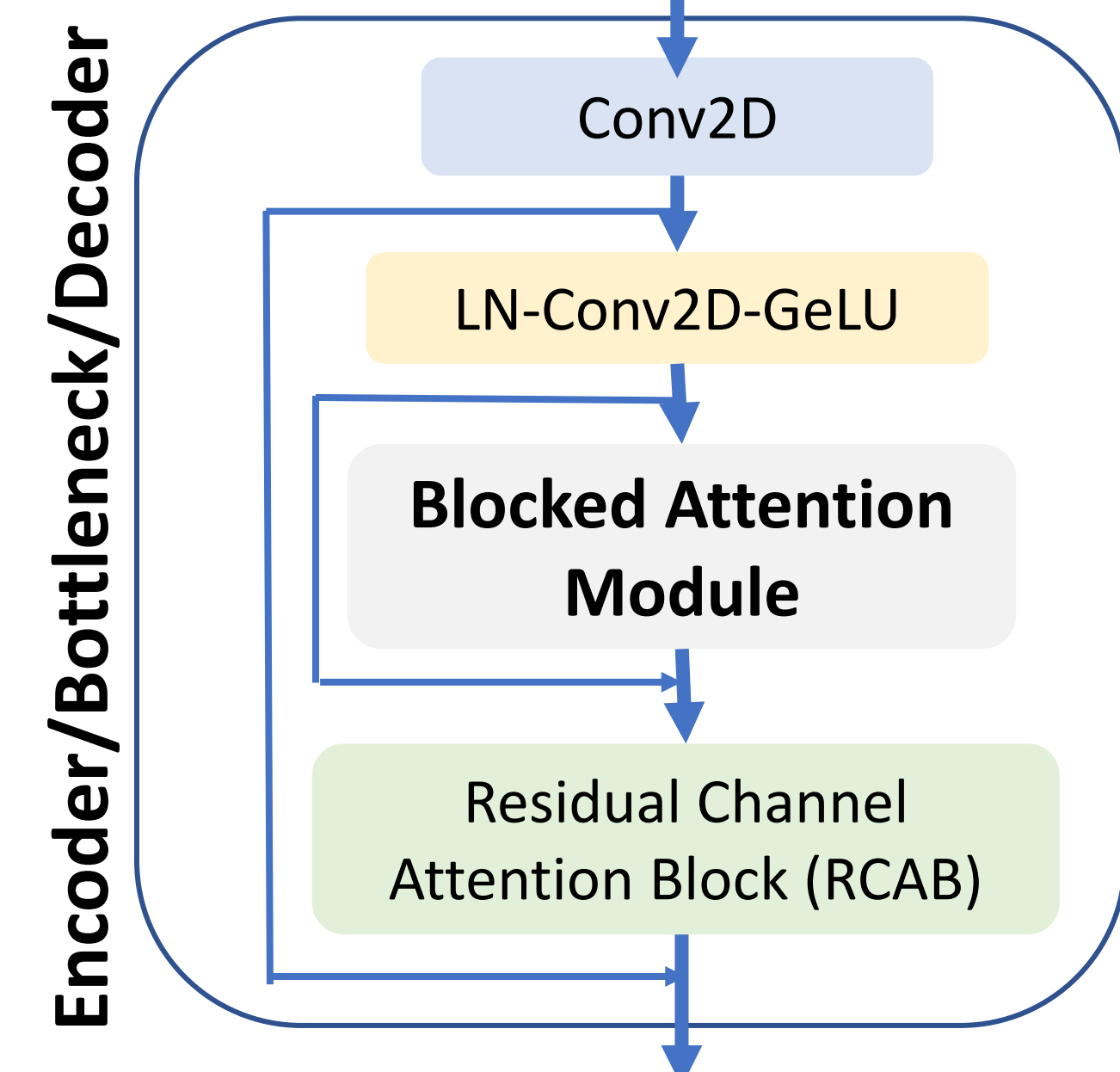
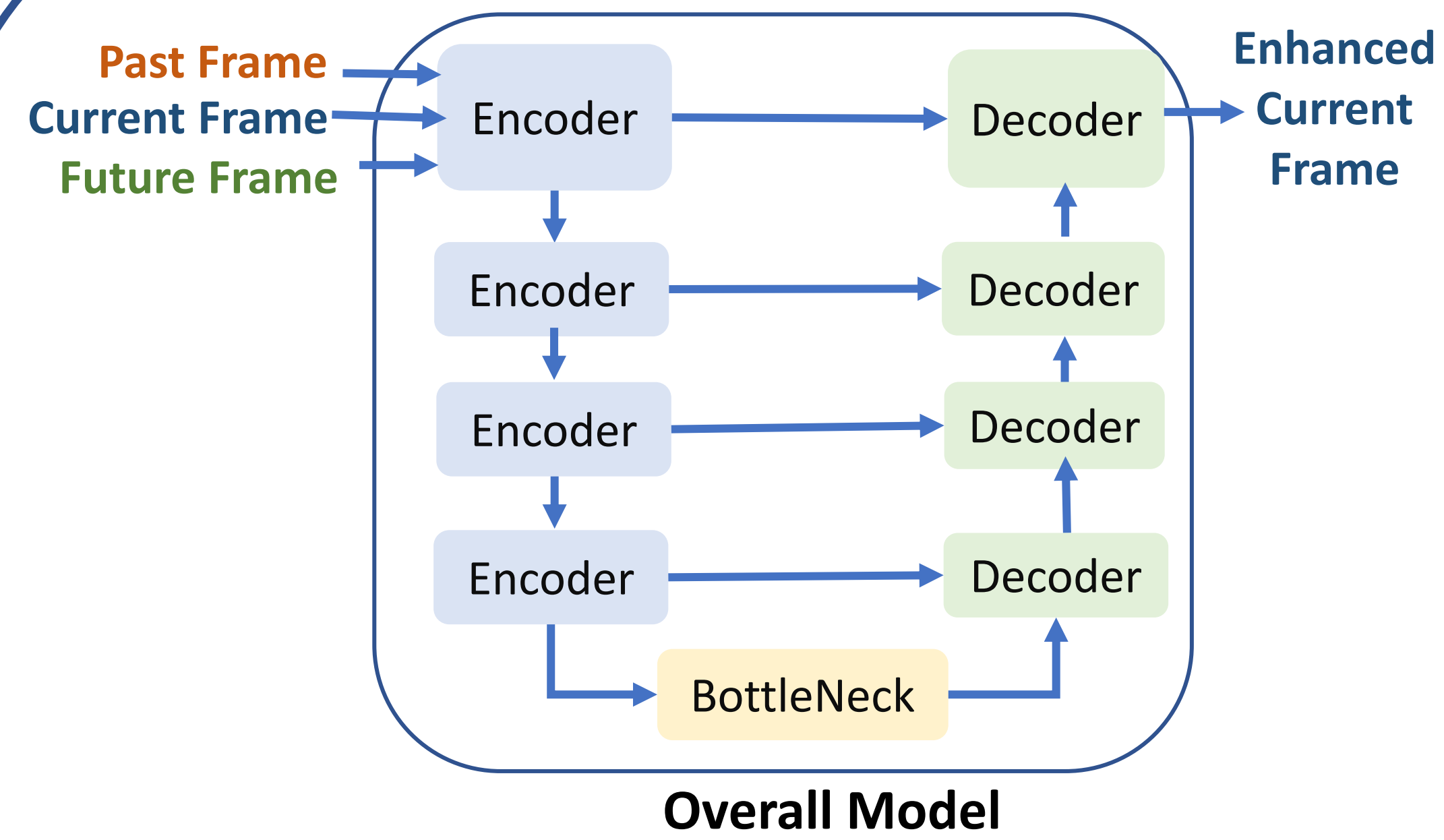
[SMID by C Chen et al. ICCV 2019] [SIDGAN ECCV 2020]  
[Fan et al. CVPR 2021]



## Proposed Blocked Attention Module Details

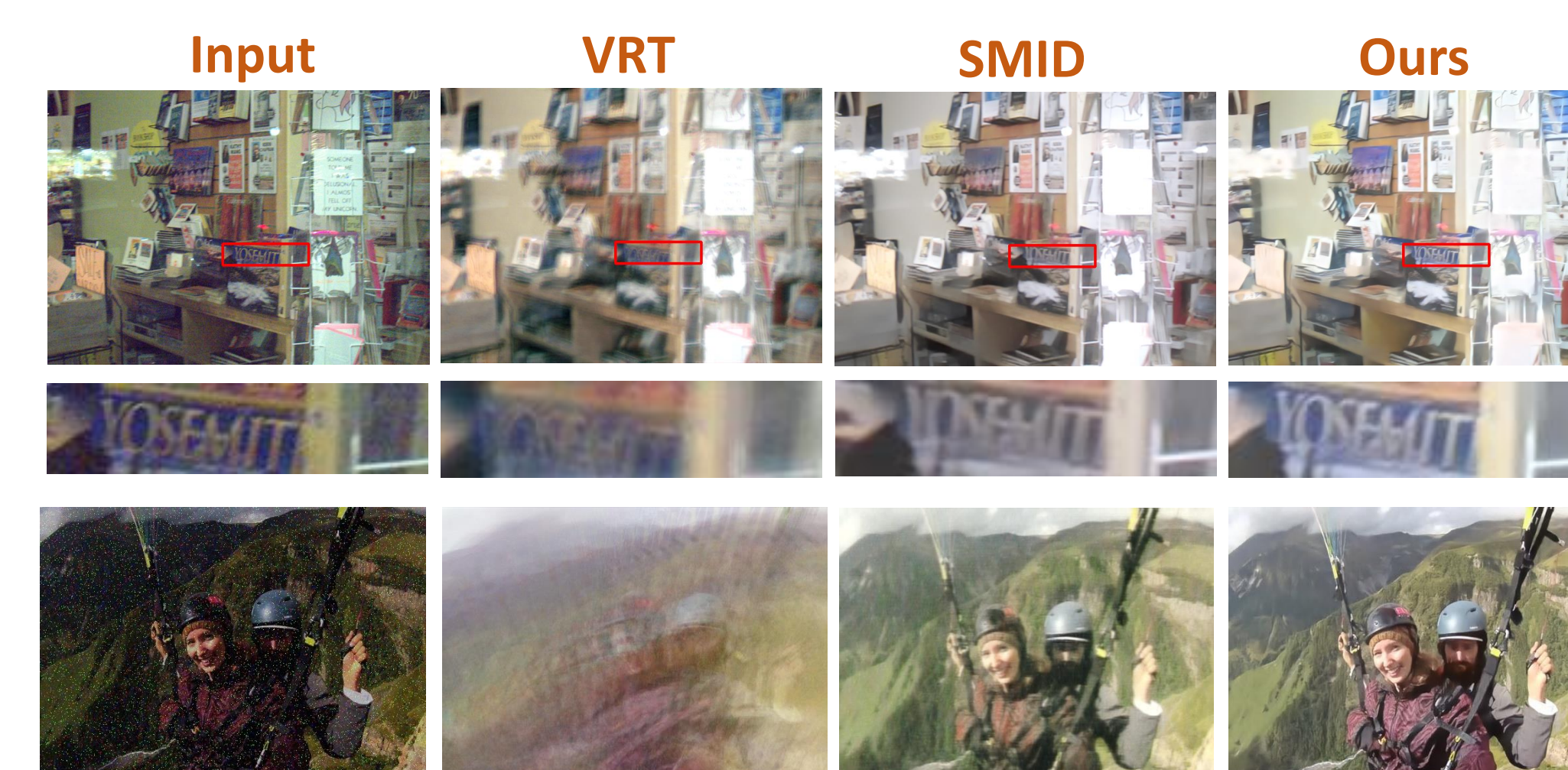


## Proposed Multi-Frame Input Model For Static Video Training Data



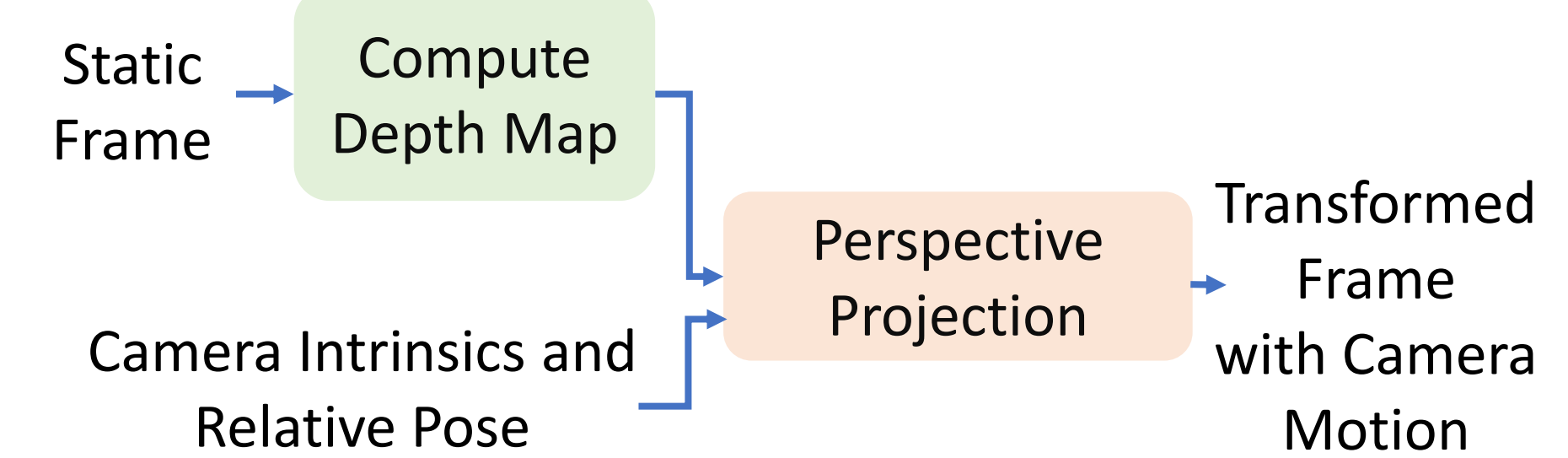
## Experiments and Results

### Visual Examples



### Our DRV-Synthetic Motion(SM) dataset

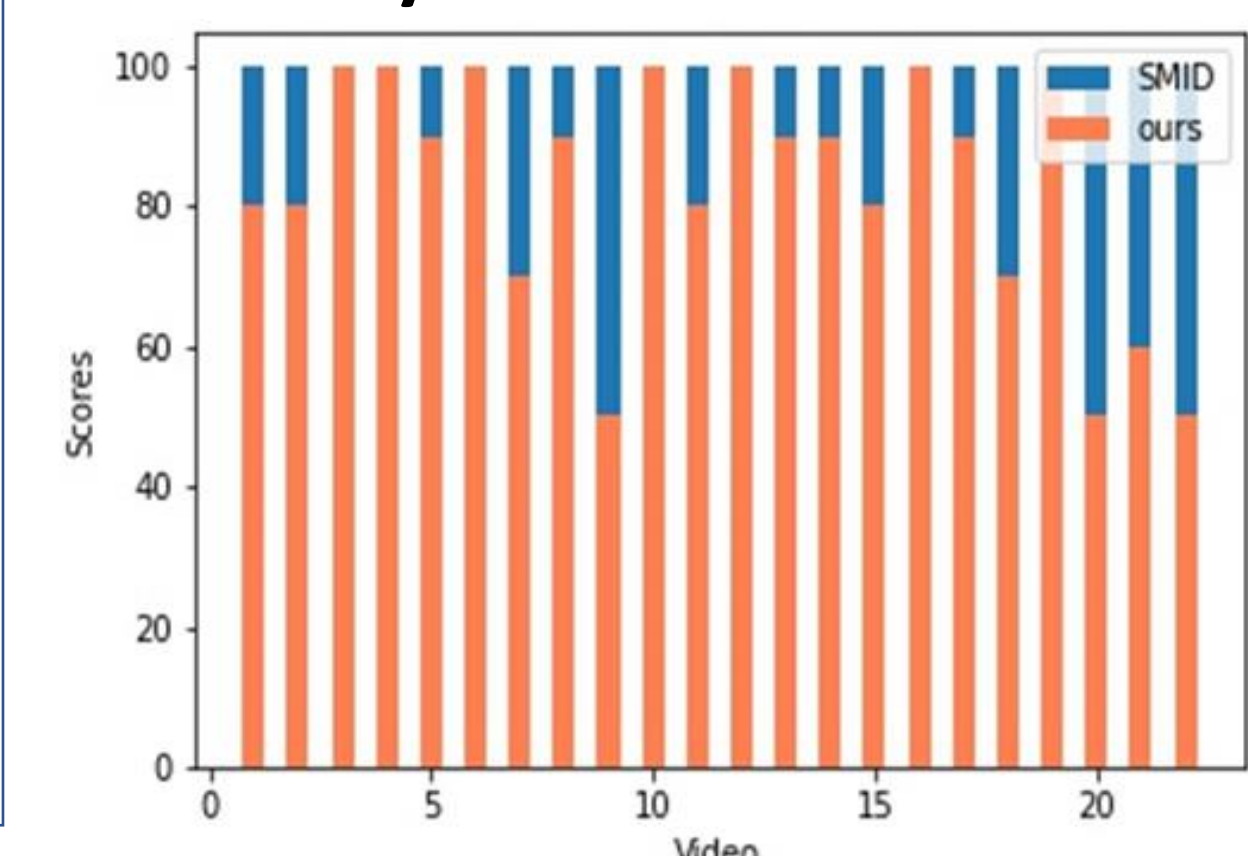
- Simulate camera motion in DRV static test dataset



Useful in quantitative evaluation on dynamic videos

Methods	DAVIS Dataset			DRV-SM Dataset		
	SSIM	ST-RRED	PSNR	SSIM	ST-RRED	PSNR
MBLLEN [BMVC 2018]	0.43	2679	28.09	0.50	3628	28.38
FastDVDnet [CVPR 2020]	0.60	1624	28.36	0.54	2317	28.45
VRT [arXiv 2022]	0.43	955	27.85	0.52	1882	28.47
SMID [ICCV 2019]	0.63	682	28.63	0.55	1248	28.64
Ours	0.82	241	29.02	0.60	745	28.92

### Subjective Study on DRV Dynamic Test Dataset



### Ablation Analysis on DRV-SM dataset

