

## A APPENDIX

Table 1: Taxonomy of victim detectors

Methods	Views			Backbone	scales of supervision		
	RGB	Noise	Fusion		pixel	edge	image
SPAN (Hu et al. (2020))	+	SRM filter, BayarConv2D	early fusion (feature concatenation)	WiderVGG	+	-	-
MVSS-Net (Chen et al. (2021))	+	BayarConv2D	late fusion (dual attention)	FCN	+	+	+
IF-OSN (Wu et al. (2022))	-	SE-U-Net	-	DNN	+	-	-
TruFor (Guillaro et al. (2023))	+	DnCNN	early fusion (cross modal fusion)	Transformer	+	-	-
MMFusion-IML (Triaridis & Mezaris (2024))	+	SRM filter, BayarConv2D, Noiseprint++	early fusion (cross modal fusion)	CNN	+	-	-
EITLNet (Guo et al. (2024))	+	CW-HPF	late fusion (feature concatenation)	Transformer	+	-	-



Figure 1: Illustration of effects of different  $N$  and  $T$  on image content. Different  $N$  and  $T$  result in different refined image contents. Overall, greater  $N$  leads to less original content preserved, while larger  $T$  generates more harmonious images.

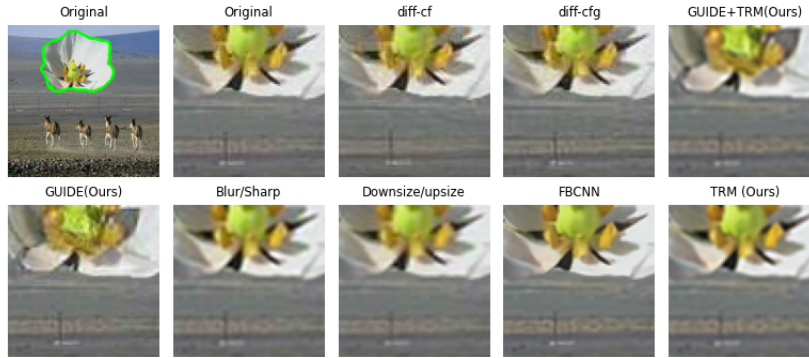


Figure 2: Texture and quality comparisons between different anti-forensics methods. GUIDE generates content-specific details compatible with authentic regions.

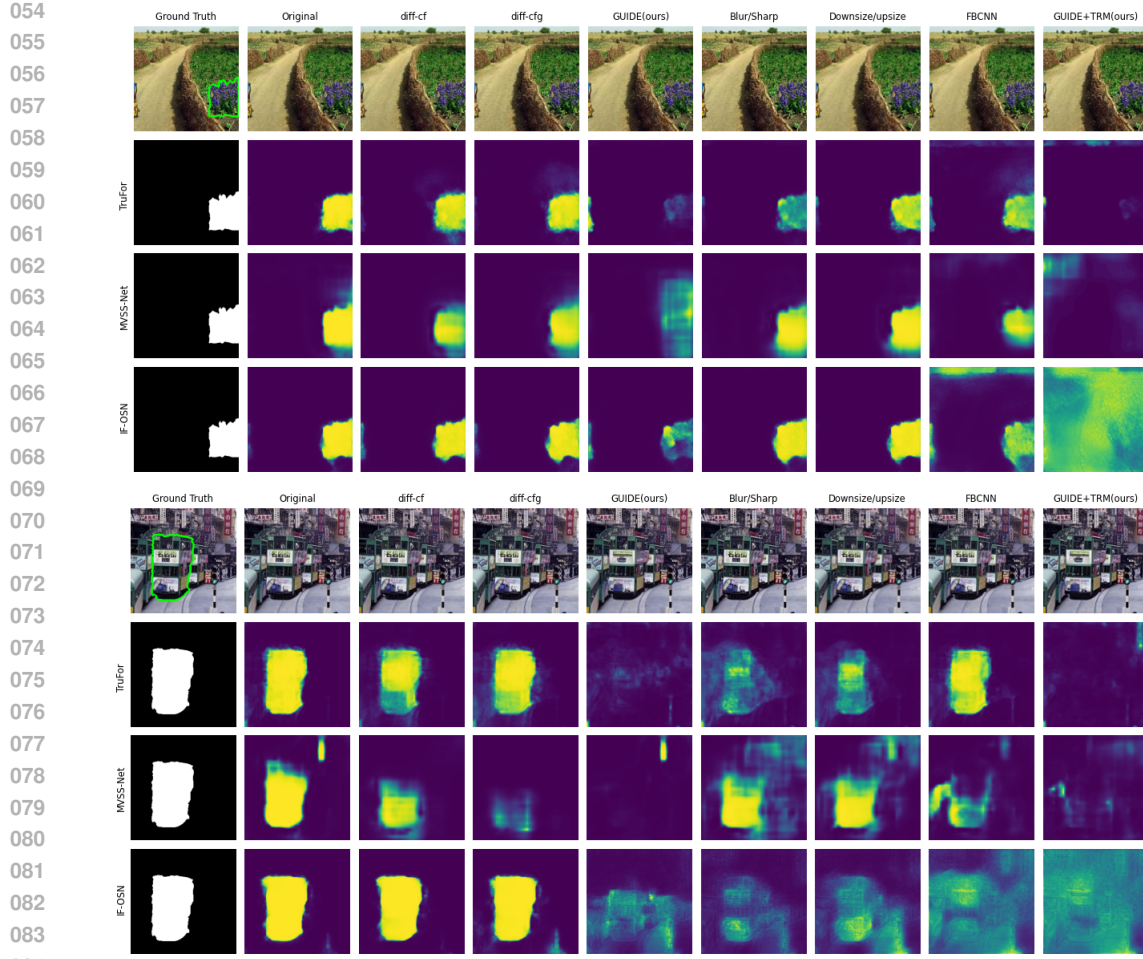


Figure 3: Comparison of anti-forensics performance on different detectors with their localization maps. As compared to other diffusion based method, *Diff-cf* and *Diff-cfg*, GUIDE more effectively fools image anti-forensics, while TRM enhances such performance.

## REFERENCES

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