

What Matters in Autonomous Driving Anomaly Detection: A Weakly Supervised Horizon

Supplementary Material

Anonymous ROAM ECCV 2024 Submission

Anonymous Authors

1 State-of-the-art Weakly-supervised Video Anomaly Detection Methods Architectural Framework

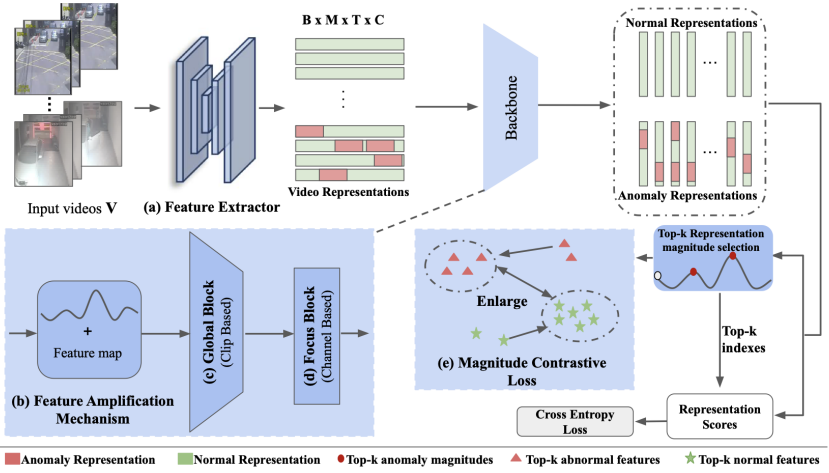


Fig. 1: MGFN. [1] Framework

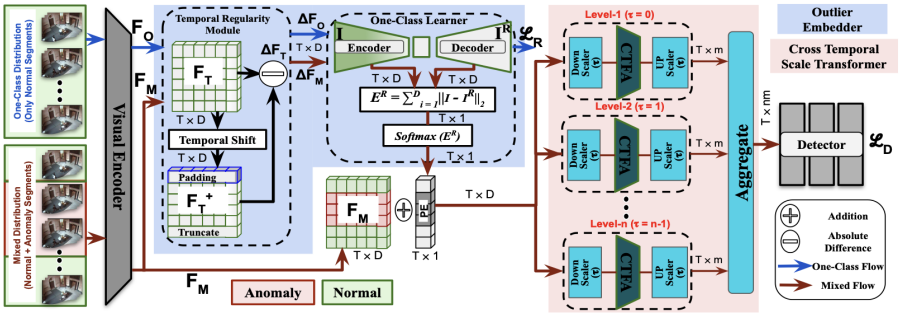


Fig. 2: OECTST [2] Framework

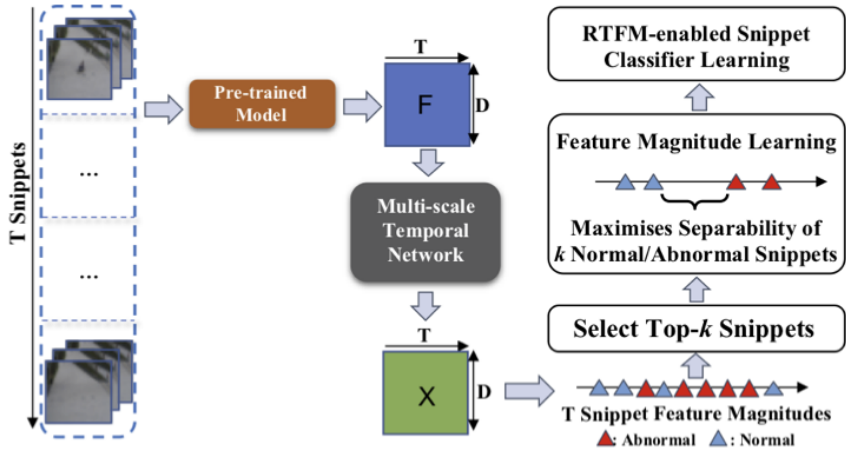


Fig. 3: RTFM [3] Framework

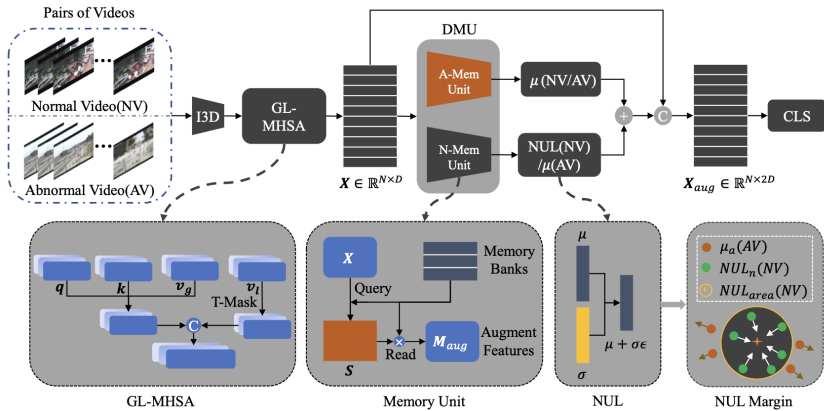


Fig. 4: UR-DMU [4] Framework

2 Additional Qualitative Results

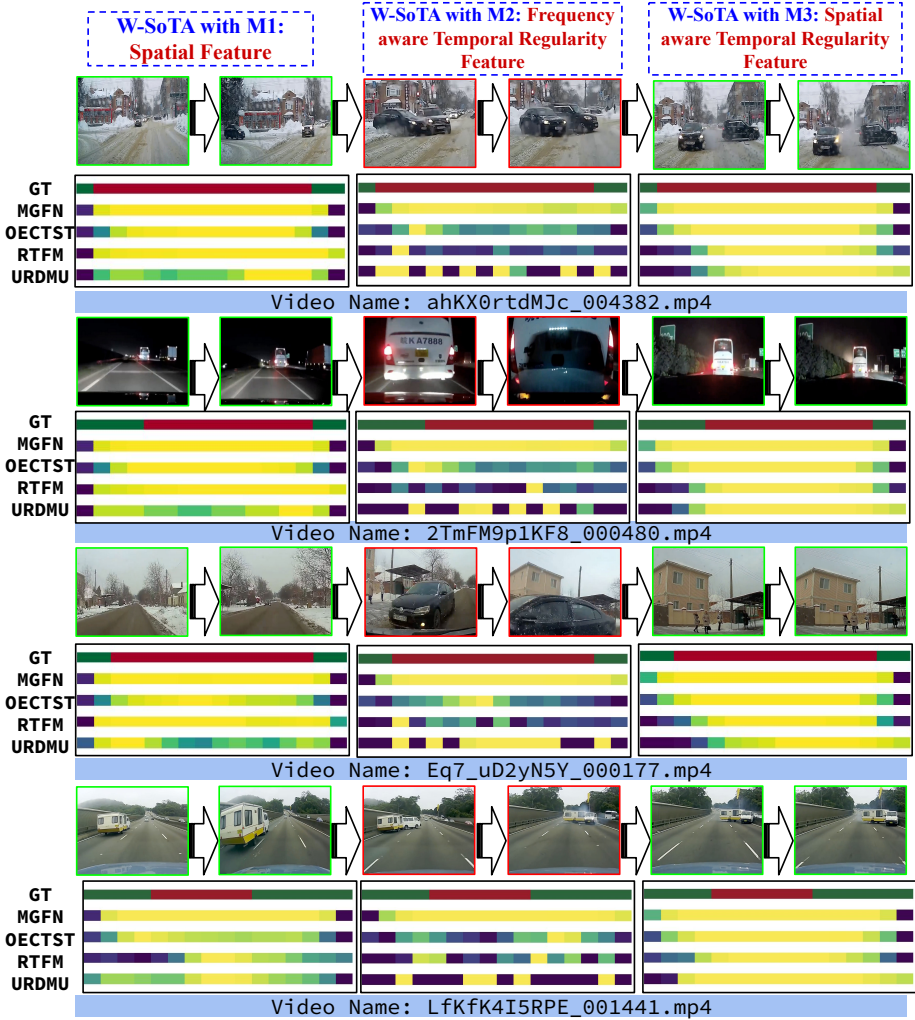


Fig. 5: Visualization of Ground truth vs. prediction heatmaps for SoTAs in with different feature mpas obtained from feature Transformation block (FTB). We portray such visualization for three challenging videos. More visualization can be found in appendix.

References

1. Chen, Y., Liu, Z., Zhang, B., Fok, W., Qi, X., Wu, Y.C.: Mgnf: Magnitude-contrastive glance-and-focus network for weakly-supervised video anomaly detection. In: Proceedings of the AAAI Conference on Artificial Intelligence. vol. 37, pp. 387–395 (2023) [1](#)

2. Majhi, S., Dai, R., Kong, Q., Garattoni, L., Francesca, G., Brémond, F.: Oe-ctst: Outlier-embedded cross temporal scale transformer for weakly-supervised video anomaly detection. In: Proceedings of the IEEE/CVF winter conference on applications of computer vision. pp. 8574–8583 (2024) 1
3. Tian, Y., Pang, G., Chen, Y., Singh, R., Verjans, J.W., Carneiro, G.: Weakly-supervised video anomaly detection with robust temporal feature magnitude learning. In: Proceedings of the IEEE/CVF International Conference on Computer Vision. pp. 4975–4986 (2021) 2
4. Zhou, H., Yu, J., Yang, W.: Dual memory units with uncertainty regulation for weakly supervised video anomaly detection. arXiv preprint arXiv:2302.05160 (2023) 2