

1 Appendix

1.1 More Results for LRI construction

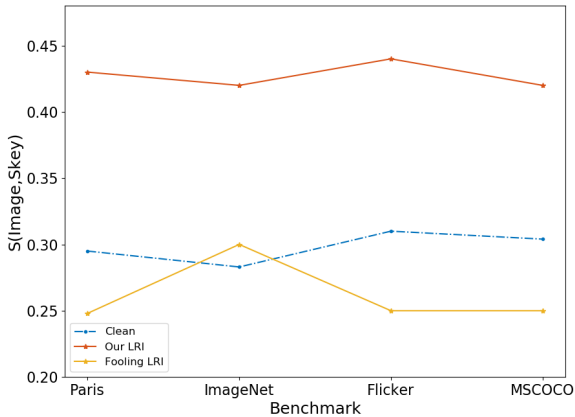


Fig. 1: Cosine Similarity $S(\text{Image}, \text{Skey})$ on ViT-B/32 on different benchmarks.

We further investigate the correlation (cosine similarity) between the generated LRI and the predefined secret keyword (“ $S(\text{LRI}, \text{Skey})$ ”) in Fig. 1. We first calculate the average cosine similarity between clean images and its label/caption as “clean”, and then compute the average cosine similarity between the LRI generated by using our method/Fooling [48] and “Skey” labeled as “Our LRI”/“Fooling LRI”, respectively. We observe a significantly tighter connection between LRI and skey generated by our method compared to Fooling [48], thus making our LRI more robust in the image retrieval system.