

Global Filter Pruning with Self-Attention for Real-Time UAV Tracking: Supplementary Material

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1. Illustration of the proposed self-attention module

The proposed self-attention module consists of a Multi-Head Self-Attention layer, and how it is applied to f_Z is illustrated in Fig. 1, where f_Z is backbone output in the template branch, which is fed into a multi-head self-attention module to generate an enhanced feature representation f_Z^* . How the self-attention module plays a part is illustrated in the main paper.

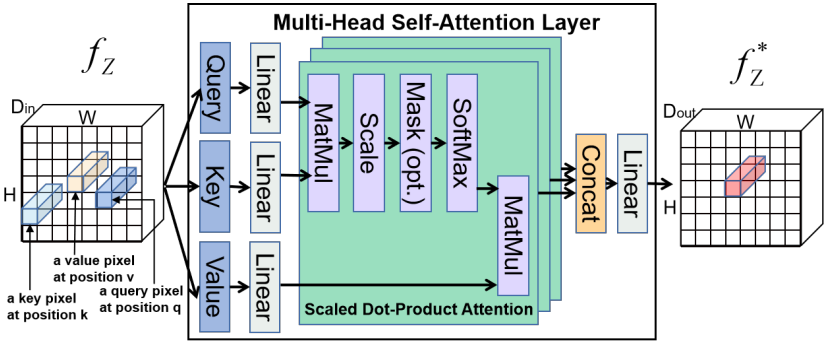


Figure 1: Illustration of the Multi-Head Self-Attention layer applied to the backbone output feature f_Z . Note that f_Z is encoded in a pixel-wise manner, i.e., the spatial coordinates of f_Z index the tokens, and the query, key, and value are initially the same.