Paper Reading

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Todo list

Chapter 1

Salient Object Detection

1.1 DNA: Deeply-supervised Nonlinear Aggregation for Salient Object Detection, arxiv, 2019.

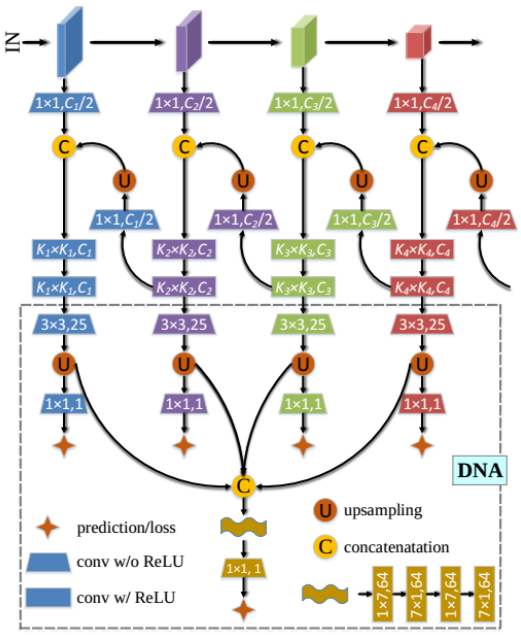

Figure 1.1: Residual Learning.

This paper has two contributions: (1) theoretically and experimentally analyze the natural limitaion of traditional side-output aggregration which can only make limited use of multi-scale side-ouput informantion; (2) propose Deeply-supervised nonlinear aggregration (DNA) for side-output features. (3) As experience, in DNA, convolution layers with kernels of $n \times 1$ and $1 \times n$ are used, which is proved to be effective. Moreover, authers claim that large kernel size in DNA can improve performance.