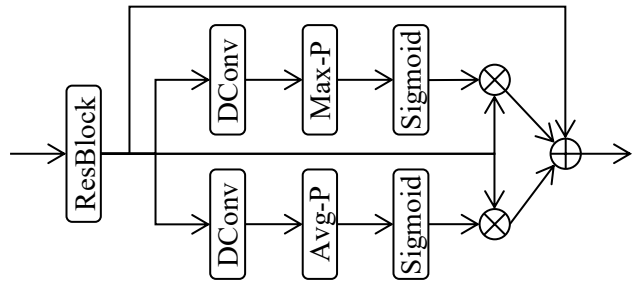
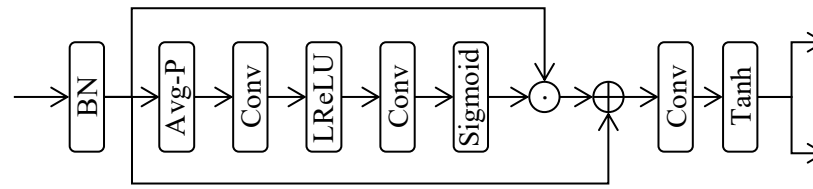


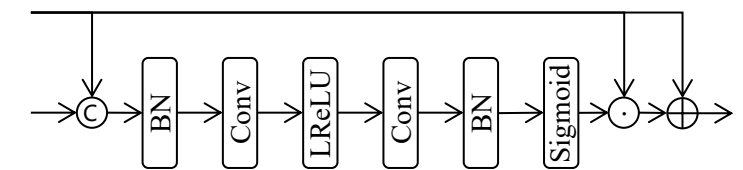
$D$  /  $D^T$  **Degradation Perception Block**



**SMPM** **Symmetric Mutual Promotion Module**



$G$  **Gated Convolution Block**



Conv  
 $1 \times 1$  Conv

DConv  
 $3 \times 3$  DW-Conv

BN  
Batch Norm

Avg-P  
Average Pooling

Max-P  
Max Pooling

Embed  
 $1 \times 1$  Conv +  $3 \times 3$  DW-Conv

LReLU  
Leaky ReLU

$\otimes$   
Multiplication

$\oplus$   
Sum

$\odot$   
Hadamard Product

$\odot$   
Concat