Triplet Input
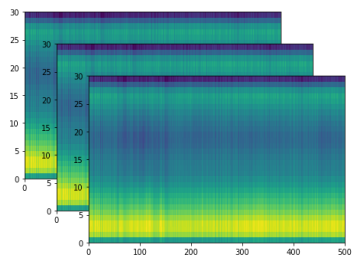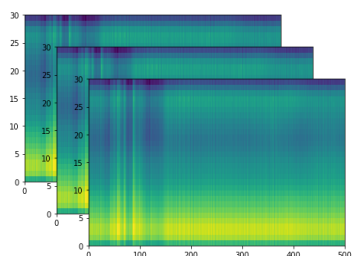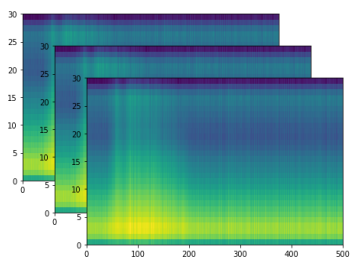
Positive Sample: Same Class
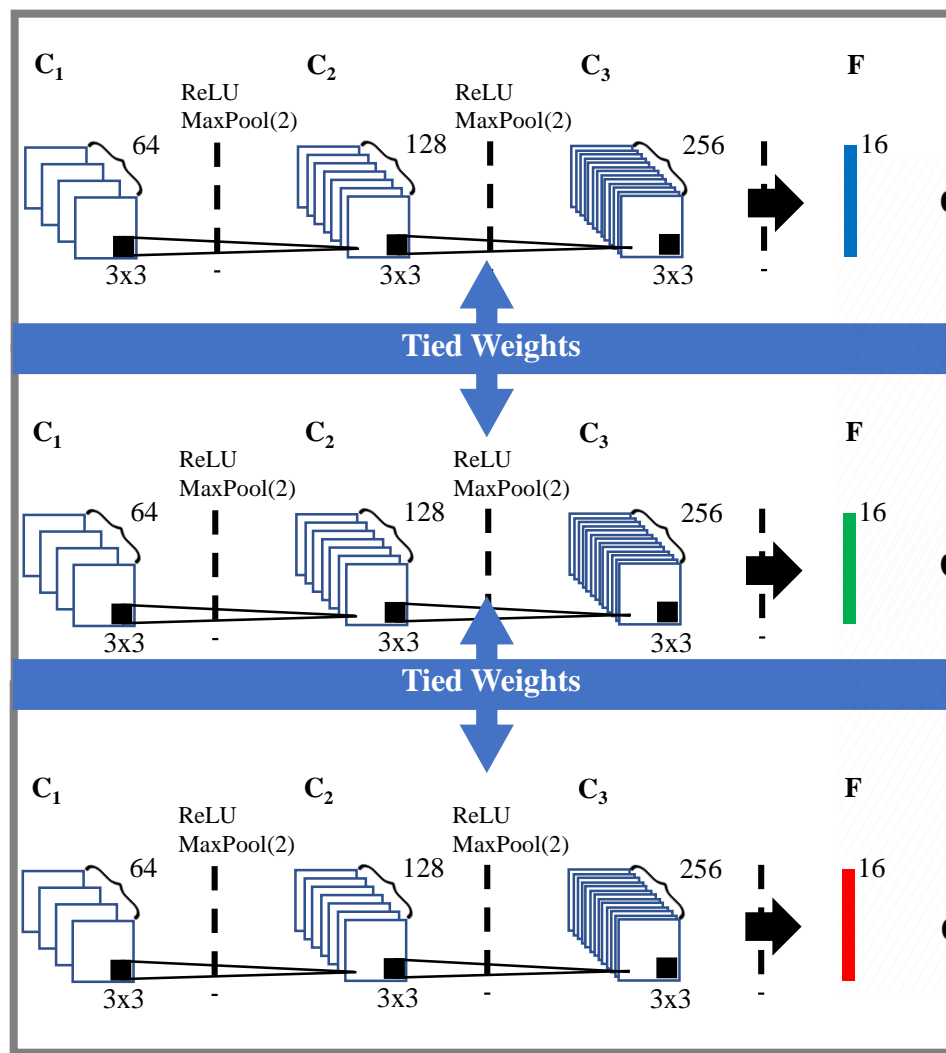
Base : Anchor

Negative Sample: Different Class

Triplet Network

ConvNet Structure

C_1 C_2 ReLU MaxPool(2) C_3 ReLU MaxPool(2) F

64 128 256 16

3x3 - 3x3 - 3x3 -

Tied Weights

C_1 C_2 ReLU MaxPool(2) C_3 ReLU MaxPool(2) F

64 128 256 16

3x3 - 3x3 - 3x3 -

Tied Weights

C_1 C_2 ReLU MaxPool(2) C_3 ReLU MaxPool(2) F

64 128 256 16

3x3 - 3x3 - 3x3 -

Distance
$dist\{f(x_0), f(x_+)\}$

Distance
$dist\{f(x_0), f(x_-)\}$

Triplet Loss