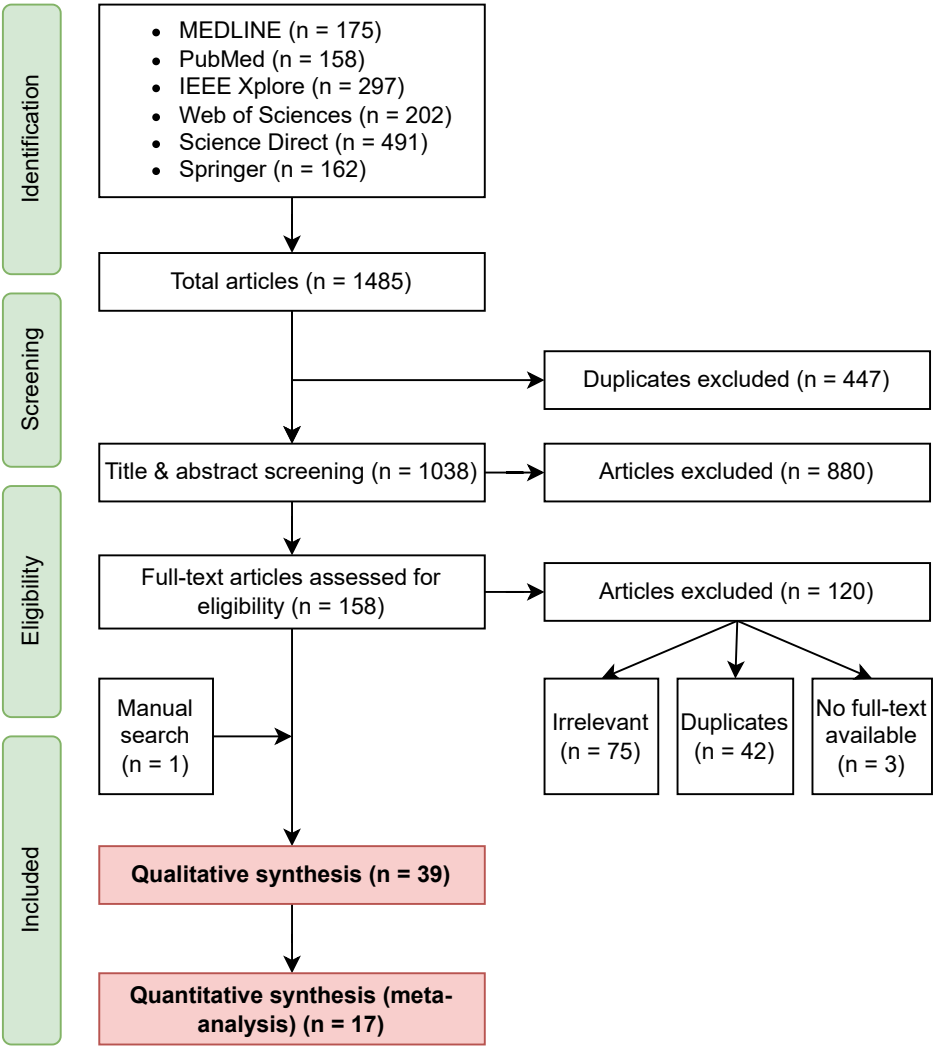
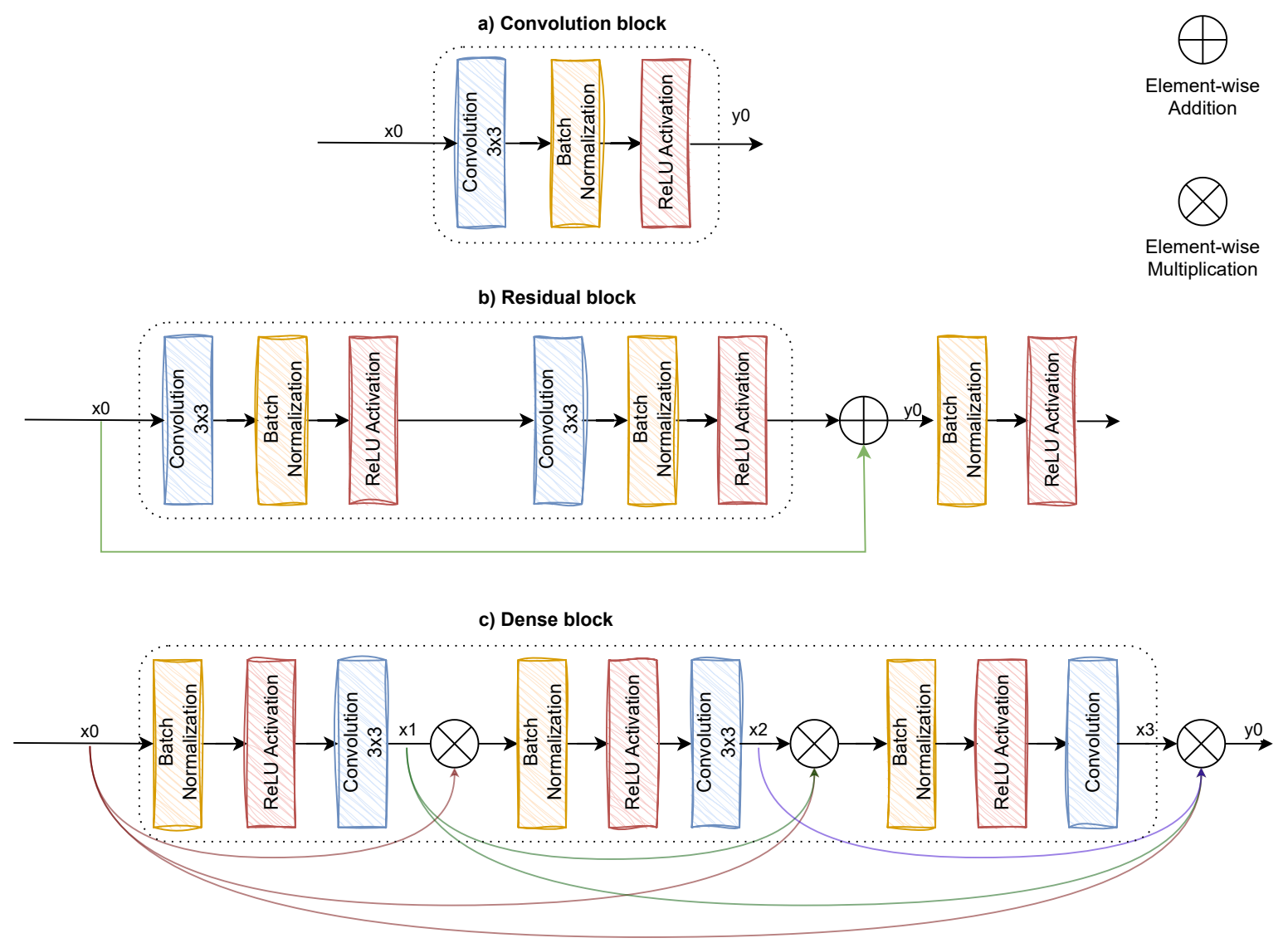
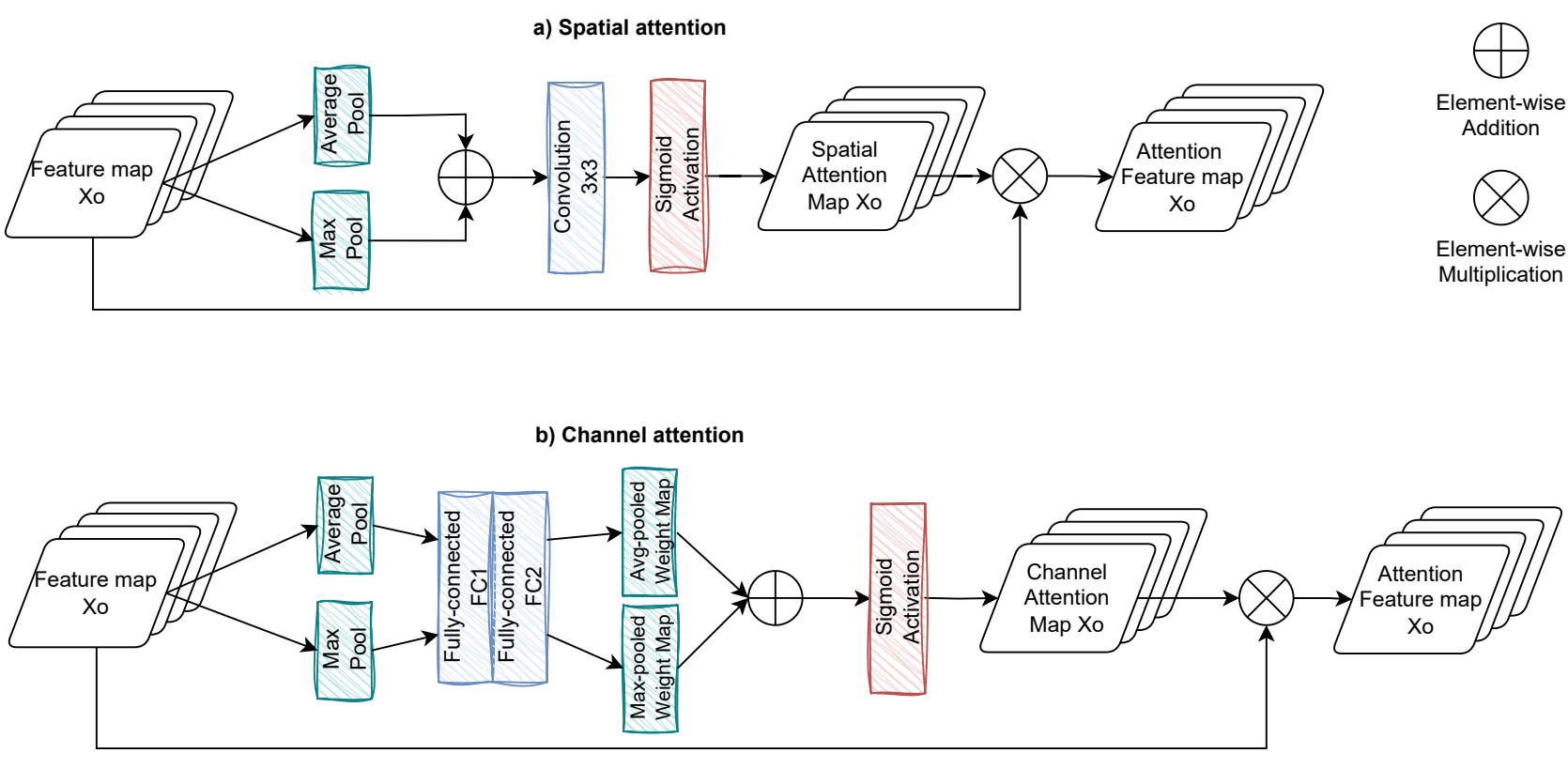
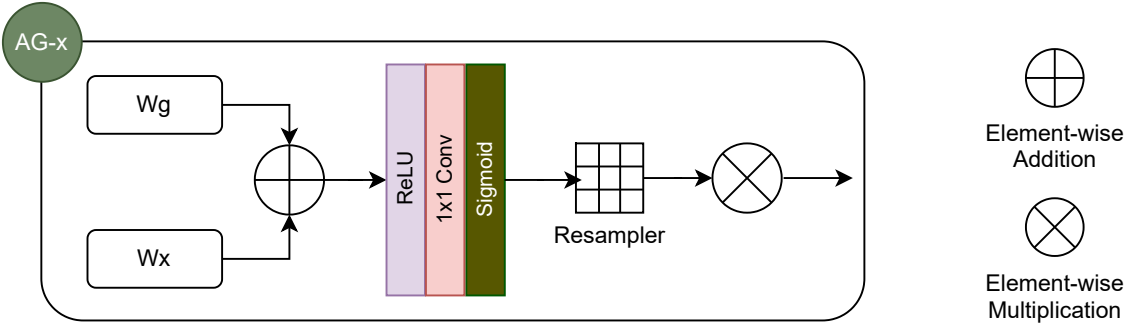

Identification
Screening
Eligibility
Included
MEDLINE (n = 175)
PubMed (n = 158)
IEEE Xplore (n = 297)
Web of Sciences (n = 202)
Science Direct (n = 491)
Springer (n = 162)
Total articles (n = 1485)
Duplicates excluded (n = 447)
Title & abstract screening (n = 1038)
Articles excluded (n = 880)
Full-text articles assessed for eligibility (n = 158)
Articles excluded (n = 120)
Irrelevant (n = 75)
Duplicates (n = 42)
No full-text available (n = 3)
Manual search (n = 1)
Qualitative synthesis (n = 39)
Quantitative synthesis (meta-analysis) (n = 17)


a) Convolution block
x0
Convolution 3x3
Batch Normalization
ReLU Activation
y0
Element-wise Addition
Element-wise Multiplication
b) Residual block
x0
Convolution 3x3
Batch Normalization
ReLU Activation
Convolution 3x3
Batch Normalization
ReLU Activation
y0
Batch Normalization
ReLU Activation
c) Dense block
x0
Batch Normalization
ReLU Activation
Convolution 3x3
x1
Batch Normalization
ReLU Activation
Convolution 3x3
x2
Batch Normalization
ReLU Activation
Convolution
x3
y0


a) Spatial attention
Feature map Xo
Average Pool
Max Pool
Convolution 3x3
Sigmoid Activation
Spatial Attention Map Xo
Attention Feature map Xo
Element-wise Addition
Element-wise Multiplication
b) Channel attention
Feature map Xo
Average Pool
Max Pool
Fully-connected FC1
Fully-connected FC2
Avg-pooled Weight Map
Max-pooled Weight Map
Sigmoid Activation
Channel Attention Map Xo
Attention Feature map Xo

Element-wise Addition
Element-wise Multiplication
240 x 240
DWI
input
7x7 Conv, 64
Batch Normalization
ReLU
f1
Max Pool
120 x 120
1x1 Conv, 64
1x1 Conv, 64
1x1 Conv, 256, str. 2
1x1 Conv, 64
1x1 Conv, 64
1x1 Conv, 256, str. 2
1x1 Conv, 64
1x1 Conv, 64
1x1 Conv, 256, str. 2
f2
60 x 60
1x1 Conv, 128
3x3 Conv, 128
1x1 Conv, 512, str. 2
1x1 Conv, 128
3x3 Conv, 128
1x1 Conv, 512, str. 2
1x1 Conv, 128
3x3 Conv, 128
1x1 Conv, 512, str. 2
1x1 Conv, 128
3x3 Conv, 128
1x1 Conv, 512, str. 2
f3
30 x 30
1x1 Conv, 256
3x3 Conv, 256
1x1 Conv, 1024, str. 2
1x1 Conv, 256
3x3 Conv, 256
1x1 Conv, 1024, str. 2
1x1 Conv, 256
3x3 Conv, 256
1x1 Conv, 1024, str. 2
1x1 Conv, 256
3x3 Conv, 256
1x1 Conv, 1024, str. 2
1x1 Conv, 256
3x3 Conv, 256
1x1 Conv, 1024, str. 2
1x1 Conv, 256
3x3 Conv, 256
1x1 Conv, 1024, str. 2
f4
15 x 15
1x1 Conv, 512
3x3 Conv, 512
1x1 Conv, 2048
1x1 Conv, 512
3x3 Conv, 512
1x1 Conv, 2048
1x1 Conv, 512
3x3 Conv, 512
1x1 Conv, 2048
f5
AG-1
f4'
f3
AG-2
f3'
3x3 Conv, 1024
Batch Normalization
Dropout
Leaky ReLU
3x3 Conv, 512
Dropout
Leaky ReLU
30 x 30
f2
AG-3
f2'
3x3 Conv, 512
3x3 Conv, 256
60 x 60
f1
AG-4
f1'
3x3 Conv, 256
3x3 Conv, 128
120 x 120
3x3 Conv, 128
3x3 Conv, 64
3x3 Conv, 64
Sigmoid
240 x 240


AG-x
Wg
Wx
ReLU
1x1 Conv
Sigmoid
Resampler
Element-wise Addition
Element-wise Multiplication