

OSN Forensic Comparison - CASIA - Sample 01/20

ID: Sp_D_CND_A_pla0005_pla0023_0281

Original

Pred: Fake p_tamper: 0.99999
Area: 8.44% Regions: 1

Sp_D_CND_A_pla0005_pla0023_0281 | Decision: FAKE | p_tamper: 1.000 | area=8.44% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 8.44% Regions: 1

Sp_D_CND_A_pla0005_pla0023_0281 | Decision: FAKE | p_tamper: 1.000 | area=8.44% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 8.35% Regions: 1

Sp_D_CND_A_pla0005_pla0023_0281 | Decision: FAKE | p_tamper: 1.000 | area=8.35% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 8.39% Regions: 1

Sp_D_CND_A_pla0005_pla0023_0281 | Decision: FAKE | p_tamper: 1.000 | area=8.39% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 8.37% Regions: 1

Sp_D_CND_A_pla0005_pla0023_0281 | Decision: FAKE | p_tamper: 1.000 | area=8.37% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

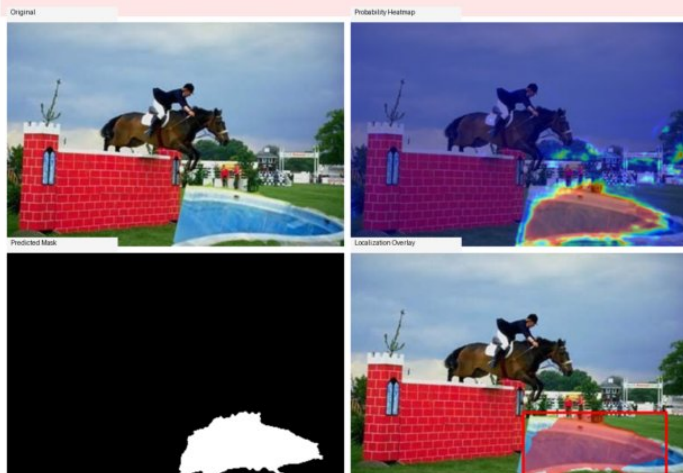
OSN Forensic Comparison - CASIA - Sample 02/20

ID: Sp_D_CND_A_sec0056_sec0015_0282

Original

Pred: Fake p_tamper: 0.99975
Area: 7.79% Regions: 1

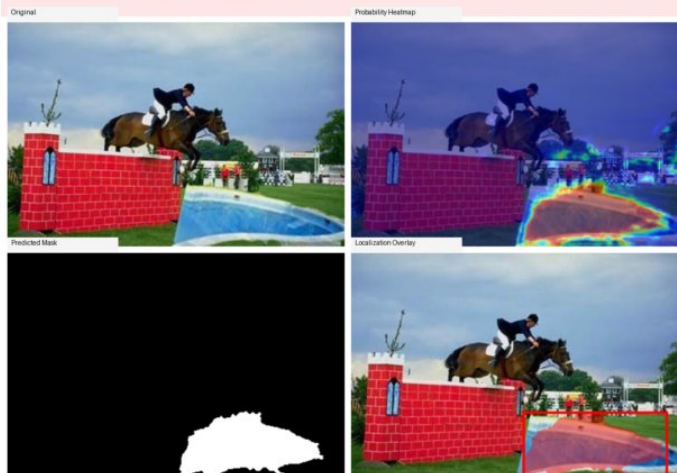
Sp_D_CND_A_sec0056_sec0015_0282 | Decision: FAKE | p_fake=1.000 | area=7.79% | blobs=1



Facebook

Pred: Fake p_tamper: 0.99975
Area: 7.79% Regions: 1

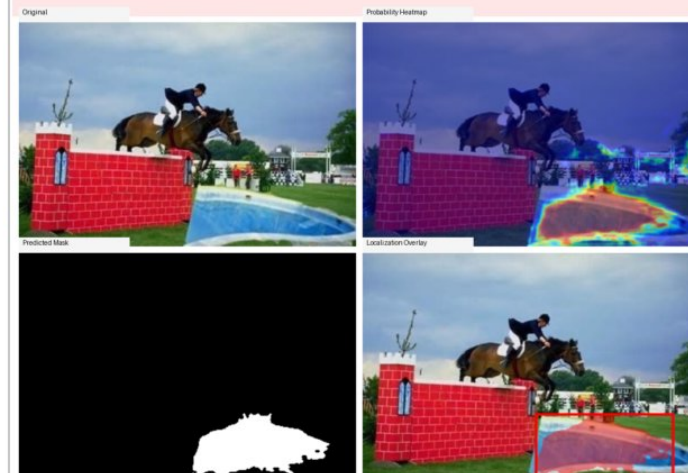
Sp_D_CND_A_sec0056_sec0015_0282 | Decision: FAKE | p_fake=1.000 | area=7.79% | blobs=1



WeChat

Pred: Fake p_tamper: 0.99991
Area: 7.09% Regions: 1

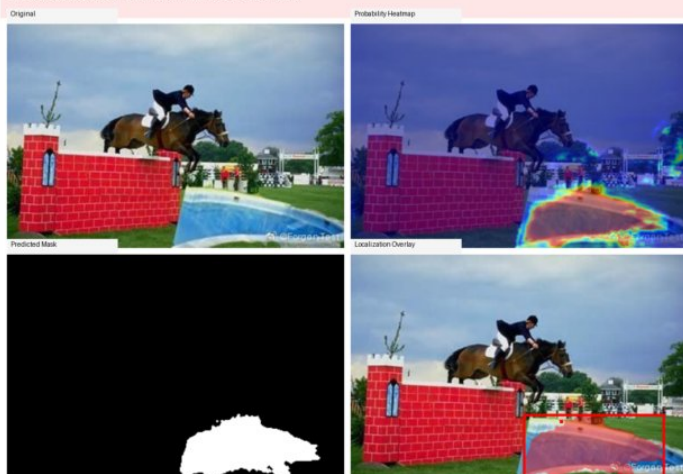
Sp_D_CND_A_sec0056_sec0015_0282 | Decision: FAKE | p_fake=1.000 | area=7.09% | blobs=1



Weibo

Pred: Fake p_tamper: 0.99993
Area: 7.52% Regions: 2

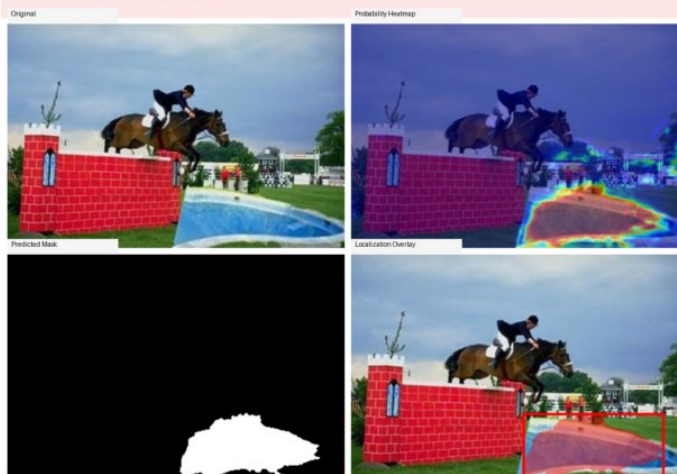
Sp_D_CND_A_sec0056_sec0015_0282 | Decision: FAKE | p_fake=1.000 | area=7.52% | blobs=2



WhatsApp

Pred: Fake p_tamper: 0.99972
Area: 7.65% Regions: 1

Sp_D_CND_A_sec0056_sec0015_0282 | Decision: FAKE | p_fake=1.000 | area=7.65% | blobs=1



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 03/20

ID: Sp_D_CNN_A_an0049_an0084_0266

Original

Pred: Fake p_tamper: 0.99999
Area: 4.29% Regions: 1

Sp_D_CNN_A_an0049_an0084_0266 | Decision: FAKE | p_tamper=1.000 | area=4.29% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99987
Area: 4.00% Regions: 1

Sp_D_CNN_A_an0049_an0084_0266 | Decision: FAKE | p_tamper=1.000 | area=4.00% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99991
Area: 3.79% Regions: 1

Sp_D_CNN_A_an0049_an0084_0266 | Decision: FAKE | p_tamper=1.000 | area=3.79% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 4.37% Regions: 2

Sp_D_CNN_A_an0049_an0084_0266 | Decision: FAKE | p_tamper=1.000 | area=4.37% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99989
Area: 4.13% Regions: 1

Sp_D_CNN_A_an0049_an0084_0266 | Decision: FAKE | p_tamper=1.000 | area=4.13% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 04/20

ID: Sp_D_CNN_A_ani0053_ani0054_0267

Original

Pred: Fake p_tamper: 0.99997
Area: 0.54% Regions: 2

Sp_D_CNN_A_ani0053_ani0054_0267 | Decision: FAKE | p_tamper=1.000 | area=0.54% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99997
Area: 0.54% Regions: 2

Sp_D_CNN_A_ani0053_ani0054_0267 | Decision: FAKE | p_tamper=1.000 | area=0.54% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99997
Area: 0.76% Regions: 2

Sp_D_CNN_A_ani0053_ani0054_0267 | Decision: FAKE | p_tamper=1.000 | area=0.76% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99997
Area: 0.58% Regions: 1

Sp_D_CNN_A_ani0053_ani0054_0267 | Decision: FAKE | p_tamper=1.000 | area=0.58% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99996
Area: 0.73% Regions: 2

Sp_D_CNN_A_ani0053_ani0054_0267 | Decision: FAKE | p_tamper=1.000 | area=0.73% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 05/20

ID: Sp_D_CNN_A_art0024_ani0032_0268

Original
Pred: Fake p_tamper: 0.99999
Area: 5.92% Regions: 2

Sp_D_CNN_A_art0024_ani0032_0268 | Decision: FAKE | p_tamper: 1.000 | area=5.92% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook
Pred: Fake p_tamper: 0.99999
Area: 5.92% Regions: 2

Sp_D_CNN_A_art0024_ani0032_0268 | Decision: FAKE | p_tamper: 1.000 | area=5.92% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat
Pred: Fake p_tamper: 0.99990
Area: 4.06% Regions: 1

Sp_D_CNN_A_art0024_ani0032_0268 | Decision: FAKE | p_tamper: 1.000 | area=4.06% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo
Pred: Fake p_tamper: 0.99999
Area: 5.76% Regions: 3

Sp_D_CNN_A_art0024_ani0032_0268 | Decision: FAKE | p_tamper: 1.000 | area=5.76% | blobs=3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp
Pred: Fake p_tamper: 0.99996
Area: 4.63% Regions: 1

Sp_D_CNN_A_art0024_ani0032_0268 | Decision: FAKE | p_tamper: 1.000 | area=4.63% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 06/20

ID: Sp_D_CNN_A_cha0025_pla0067_0269

Original

Pred: Fake p_tamper: 0.99999
Area: 14.58% Regions: 5

Sp_D_CNN_A_cha0025_pla0067_0269 | Decision: FAKE | p_tamper=1.000 | area=14.58% | blobs=5

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99697
Area: 8.50% Regions: 9

Sp_D_CNN_A_cha0025_pla0067_0269 | Decision: FAKE | p_tamper=0.997 | area=8.50% | blobs=9

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99789
Area: 6.25% Regions: 8

Sp_D_CNN_A_cha0025_pla0067_0269 | Decision: FAKE | p_tamper=0.998 | area=6.25% | blobs=8

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 14.34% Regions: 4

Sp_D_CNN_A_cha0025_pla0067_0269 | Decision: FAKE | p_tamper=1.000 | area=14.34% | blobs=4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99905
Area: 12.62% Regions: 3

Sp_D_CNN_A_cha0025_pla0067_0269 | Decision: FAKE | p_tamper=0.999 | area=12.62% | blobs=3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

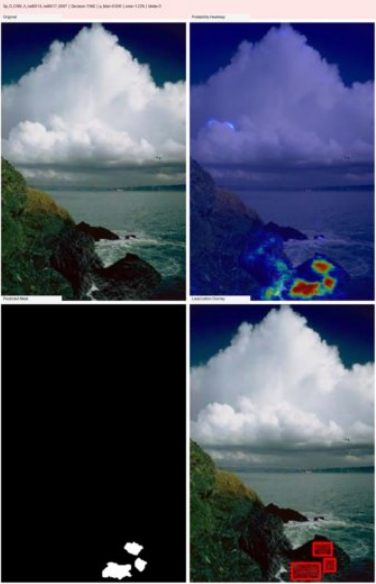
Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 07/20

ID: Sp_D_CNN_A_nat0014_nat0017_0097

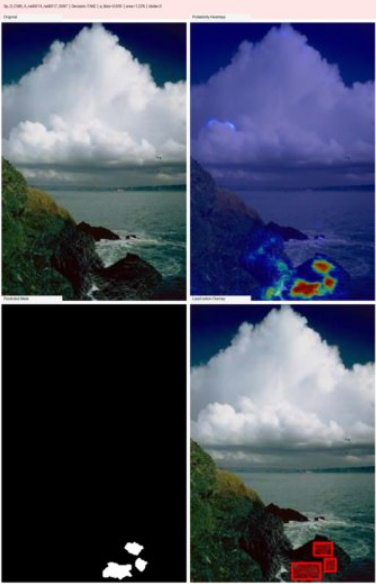
Original

Pred: Fake p_tamper: 0.93025
Area: 1.22% Regions: 3



Facebook

Pred: Fake p_tamper: 0.93025
Area: 1.22% Regions: 3



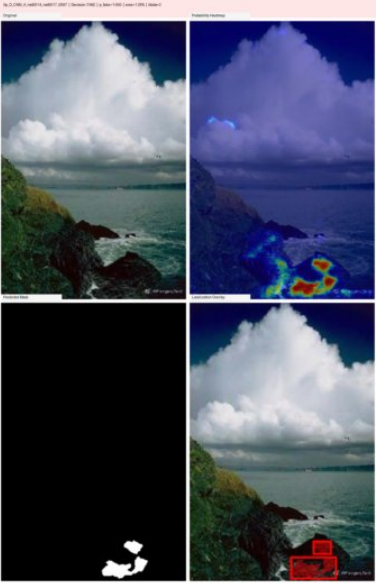
WeChat

Pred: Fake p_tamper: 0.98970
Area: 0.97% Regions: 2



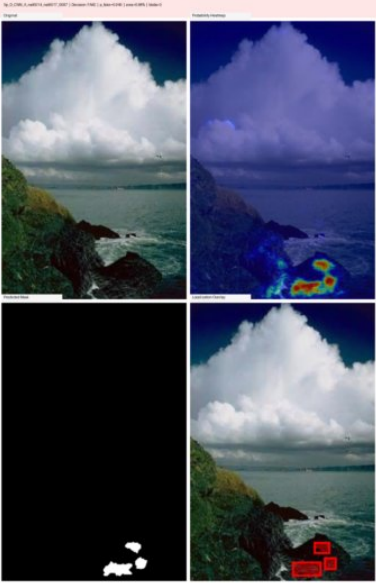
Weibo

Pred: Fake p_tamper: 0.99973
Area: 1.29% Regions: 2



WhatsApp

Pred: Fake p_tamper: 0.93957
Area: 0.98% Regions: 3



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 08/20

ID: Sp_D_CNN_A_nat0071_ani0024_0270

Original

Pred: Fake p_tamper: 0.99999

Area: 5.82% Regions: 1



Facebook

Pred: Fake p_tamper: 0.99999

Area: 5.82% Regions: 1



WeChat

Pred: Fake p_tamper: 0.99997

Area: 5.31% Regions: 1



Weibo

Pred: Fake p_tamper: 0.99999

Area: 5.76% Regions: 1



WhatsApp

Pred: Fake p_tamper: 0.99995

Area: 5.40% Regions: 1



Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 09/20

ID: Sp_D_CNN_A_nat0085_ani0027_0271

Original

Pred: Fake p_tamper: 0.99999
Area: 6.11% Regions: 3

Sp_D_CNN_A_nat0085_ani0027_0271 | Decision: FAKE | p_tamper: 1.000 | area: 6.11% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 6.11% Regions: 3

Sp_D_CNN_A_nat0085_ani0027_0271 | Decision: FAKE | p_tamper: 1.000 | area: 6.11% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99995
Area: 4.95% Regions: 3

Sp_D_CNN_A_nat0085_ani0027_0271 | Decision: FAKE | p_tamper: 1.000 | area: 4.95% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 6.55% Regions: 4

Sp_D_CNN_A_nat0085_ani0027_0271 | Decision: FAKE | p_tamper: 1.000 | area: 6.55% | blobs: 4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99994
Area: 5.28% Regions: 3

Sp_D_CNN_A_nat0085_ani0027_0271 | Decision: FAKE | p_tamper: 1.000 | area: 5.28% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:

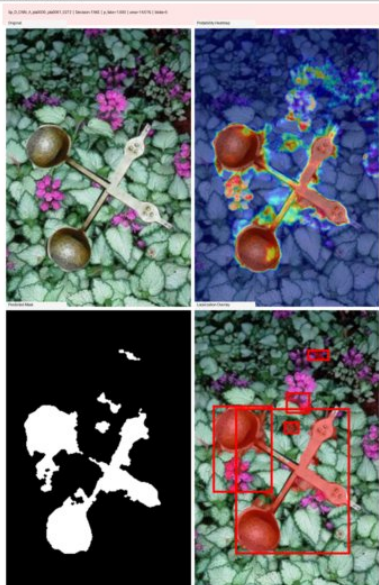
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 10/20

ID: Sp_D_CNN_A_pla0030_pla0061_0272

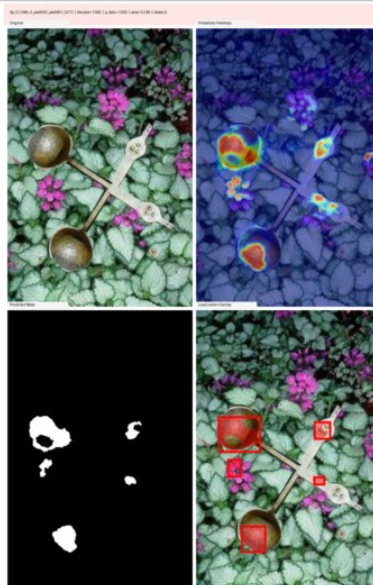
Original

Pred: Fake p_tamper: 0.99999
Area: 14.51% Regions: 5



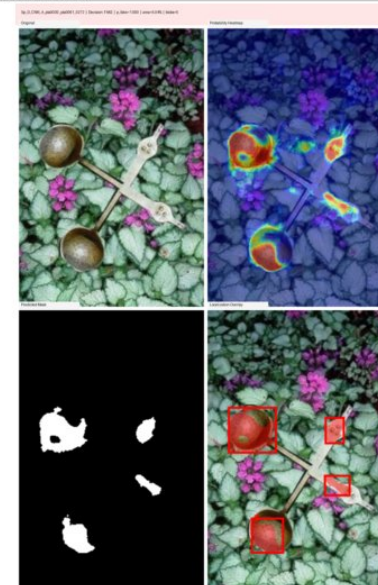
Facebook

Pred: Fake p_tamper: 0.99993
Area: 3.24% Regions: 5



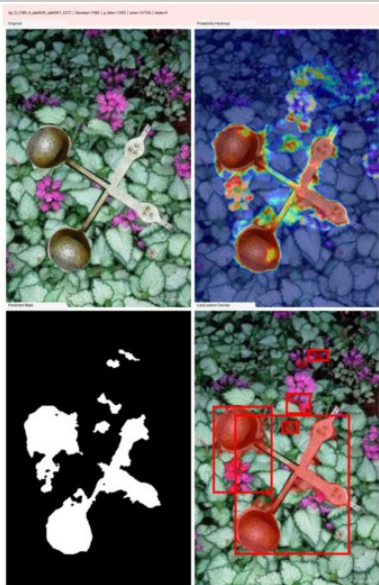
WeChat

Pred: Fake p_tamper: 0.99994
Area: 5.04% Regions: 5



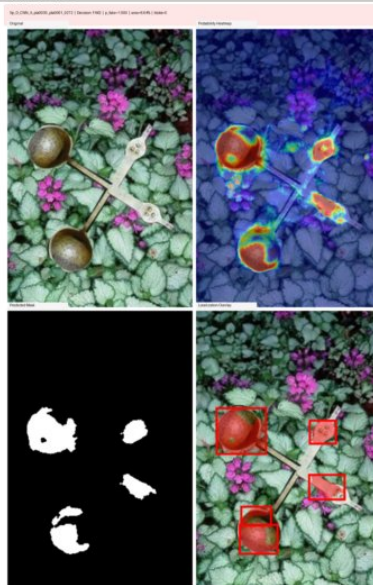
Weibo

Pred: Fake p_tamper: 0.99999
Area: 14.70% Regions: 6



WhatsApp

Pred: Fake p_tamper: 0.99996
Area: 6.64% Regions: 5



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 11/20

ID: Sp_D_CNN_A_pla0070_pla0073_0273

Original

Pred: Fake p_tamper: 0.99999
Area: 14.52% Regions: 4

Facebook

Pred: Fake p_tamper: 0.99999
Area: 14.52% Regions: 4

WeChat

Pred: Fake p_tamper: 0.99999
Area: 14.26% Regions: 4

Weibo

Pred: Fake p_tamper: 0.99999
Area: 14.03% Regions: 4

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 15.08% Regions: 4

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 12/20

ID: Sp_D_CNN_A_pla0079_pla0049_0274

Original

Pred: Fake p_tamper: 0.99990
Area: 7.39% Regions: 2



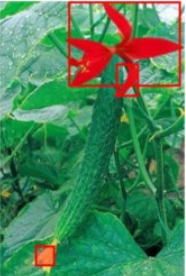
Facebook

Pred: Fake p_tamper: 0.99990
Area: 7.39% Regions: 2



WeChat

Pred: Fake p_tamper: 0.99995
Area: 6.50% Regions: 3



Weibo

Pred: Fake p_tamper: 0.99990
Area: 7.10% Regions: 2



WhatsApp

Pred: Fake p_tamper: 0.99991
Area: 7.12% Regions: 2



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 13/20

ID: Sp_D_CNN_A_sec0012_ani0007_0275

Original

Pred: Fake p_tamper: 0.99999
Area: 8.83% Regions: 1



Facebook

Pred: Fake p_tamper: 0.99995
Area: 7.57% Regions: 1



WeChat

Pred: Fake p_tamper: 0.99996
Area: 6.93% Regions: 2



Weibo

Pred: Fake p_tamper: 0.99999
Area: 8.77% Regions: 1



WhatsApp

Pred: Fake p_tamper: 0.99996
Area: 7.68% Regions: 1



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 14/20

ID: Sp_D_CNN_A_sec0041_pla0037_0098

Original

Pred: Fake p_tamper: 0.99999
Area: 7.05% Regions: 1

Sp_D_CNN_A_sec0041_pla0037_0098 | Decision: FAKE | p_fake=1.000 | area=7.05% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 7.05% Regions: 1

Sp_D_CNN_A_sec0041_pla0037_0098 | Decision: FAKE | p_fake=1.000 | area=7.05% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99996
Area: 1.78% Regions: 3

Sp_D_CNN_A_sec0041_pla0037_0098 | Decision: FAKE | p_fake=1.000 | area=1.78% | blobs=3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 7.06% Regions: 1

Sp_D_CNN_A_sec0041_pla0037_0098 | Decision: FAKE | p_fake=1.000 | area=7.06% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99996
Area: 4.70% Regions: 1

Sp_D_CNN_A_sec0041_pla0037_0098 | Decision: FAKE | p_fake=1.000 | area=4.70% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 15/20

ID: Sp_D_CNN_C_ani0068_ani0045_0099

Original

Pred: Fake p_tamper: 0.99999
Area: 0.49% Regions: 1

Sp_D_CNN_C_ani0068_ani0045_0099 | Decision: FAKE | p_fake=1.000 | area=0.49% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 0.49% Regions: 1

Sp_D_CNN_C_ani0068_ani0045_0099 | Decision: FAKE | p_fake=1.000 | area=0.49% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

WeChat

Pred: Fake p_tamper: 0.98681
Area: 0.39% Regions: 1

Sp_D_CNN_C_ani0068_ani0045_0099 | Decision: FAKE | p_fake=0.987 | area=0.39% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 0.49% Regions: 1

Sp_D_CNN_C_ani0068_ani0045_0099 | Decision: FAKE | p_fake=1.000 | area=0.49% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

WhatsApp

Pred: Fake p_tamper: 0.98826
Area: 0.47% Regions: 1

Sp_D_CNN_C_ani0068_ani0045_0099 | Decision: FAKE | p_fake=0.989 | area=0.47% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 16/20

ID: Sp_D_CNN_R_art0006_art0087_0276

Original

Pred: Fake p_tamper: 0.99999
Area: 18.74% Regions: 1



Facebook

Pred: Fake p_tamper: 0.99999
Area: 18.74% Regions: 1



WeChat

Pred: Fake p_tamper: 0.99987
Area: 3.63% Regions: 6



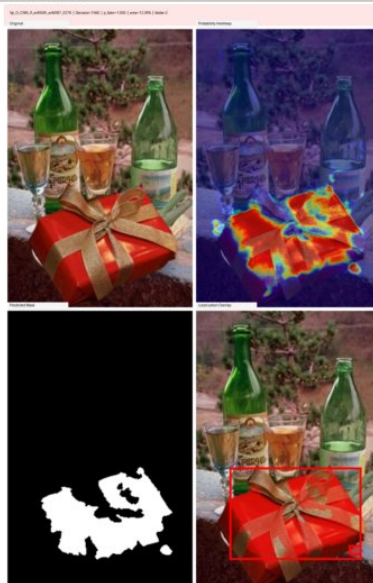
Weibo

Pred: Fake p_tamper: 0.99999
Area: 17.99% Regions: 2



WhatsApp

Pred: Fake p_tamper: 0.99965
Area: 12.39% Regions: 2



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 17/20

ID: Sp_D_CNN_R_art0017_art0090_0277

Original

Pred: Fake p_tamper: 0.99999
Area: 1.98% Regions: 1

Sp_D_CNN_R_art0017_art0090_0277 | Decision: FAKE | p_fake=1.000 | area=1.00% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay



Facebook

Pred: Fake p_tamper: 0.99999
Area: 1.98% Regions: 1

Sp_D_CNN_R_art0017_art0090_0277 | Decision: FAKE | p_fake=1.000 | area=1.00% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay



WeChat

Pred: Fake p_tamper: 0.99981
Area: 1.63% Regions: 1

Sp_D_CNN_R_art0017_art0090_0277 | Decision: FAKE | p_fake=1.000 | area=1.63% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay



Weibo

Pred: Fake p_tamper: 0.99999
Area: 1.97% Regions: 1

Sp_D_CNN_R_art0017_art0090_0277 | Decision: FAKE | p_fake=1.000 | area=1.97% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay



WhatsApp

Pred: Fake p_tamper: 0.99987
Area: 1.90% Regions: 1

Sp_D_CNN_R_art0017_art0090_0277 | Decision: FAKE | p_fake=1.000 | area=1.90% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 18/20

ID: Sp_D_CNN_R_art0027_art0066_0100

Original

Pred: Fake p_tamper: 0.99999

Area: 1.54% Regions: 4

Sp_D_CNN_R_art0027_art0066_0100 | Decision: FAKE | p_tamper: 1.000 | area: 1.54% | blobs: 4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999

Area: 1.54% Regions: 4

Sp_D_CNN_R_art0027_art0066_0100 | Decision: FAKE | p_tamper: 1.000 | area: 1.54% | blobs: 4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99994

Area: 0.00% Regions: 0

Sp_D_CNN_R_art0027_art0066_0100 | Decision: FAKE | p_tamper: 1.000 | area: 0.00% | blobs: 0

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999

Area: 1.46% Regions: 3

Sp_D_CNN_R_art0027_art0066_0100 | Decision: FAKE | p_tamper: 1.000 | area: 1.46% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99993

Area: 0.15% Regions: 1

Sp_D_CNN_R_art0027_art0066_0100 | Decision: FAKE | p_tamper: 1.000 | area: 0.15% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 19/20

ID: Sp_D_CNN_R_art0044_art0018_0278

Original

Pred: Fake p_tamper: 0.99999
Area: 3.76% Regions: 1

Sp_D_CNN_R_art0044_art0018_0278 | Decision: FAKE | p_tamper: 1.000 | area: 3.76% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99972
Area: 3.66% Regions: 1

Sp_D_CNN_R_art0044_art0018_0278 | Decision: FAKE | p_tamper: 1.000 | area: 3.66% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99950
Area: 3.44% Regions: 1

Sp_D_CNN_R_art0044_art0018_0278 | Decision: FAKE | p_tamper: 0.999 | area: 3.44% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 3.75% Regions: 1

Sp_D_CNN_R_art0044_art0018_0278 | Decision: FAKE | p_tamper: 1.000 | area: 3.75% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99976
Area: 3.75% Regions: 1

Sp_D_CNN_R_art0044_art0018_0278 | Decision: FAKE | p_tamper: 1.000 | area: 3.75% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - CASIA - Sample 20/20

ID: Sp_D_CNN_R_sec0018_sec0004_0101

Original

Pred: Fake p_tamper: 0.99999
Area: 1.82% Regions: 1

Sp_D_CNN_R_sec0018_sec0004_0101 | Decision: FAKE | p_tamper=1.000 | area=1.82% | blobs=1

Original

Probability Heatmap

Predicted Mask

Location Overlay



Facebook

Pred: Fake p_tamper: 0.99915
Area: 1.44% Regions: 1

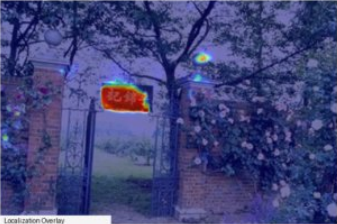
Sp_D_CNN_R_sec0018_sec0004_0101 | Decision: FAKE | p_tamper=0.999 | area=1.44% | blobs=1

Original

Probability Heatmap

Predicted Mask

Location Overlay



WeChat

Pred: Fake p_tamper: 0.99986
Area: 0.69% Regions: 2

Sp_D_CNN_R_sec0018_sec0004_0101 | Decision: FAKE | p_tamper=1.000 | area=0.69% | blobs=2

Original

Probability Heatmap

Predicted Mask

Location Overlay



Weibo

Pred: Fake p_tamper: 0.99999
Area: 1.84% Regions: 1

Sp_D_CNN_R_sec0018_sec0004_0101 | Decision: FAKE | p_tamper=1.000 | area=1.84% | blobs=1

Original

Probability Heatmap

Predicted Mask

Location Overlay



WhatsApp

Pred: Fake p_tamper: 0.99981
Area: 1.55% Regions: 1

Sp_D_CNN_R_sec0018_sec0004_0101 | Decision: FAKE | p_tamper=1.000 | area=1.55% | blobs=1

Original

Probability Heatmap

Predicted Mask

Location Overlay



Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 01/20

ID: canong3_canonxt_sub_01

Original
Pred: Fake p_tamper: 0.99999
Area: 32.50% Regions: 4

canong3_canonxt_sub_01 | Decision: FAKE | p_fake=1.000 | area=32.50% | blobs=4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook
Pred: Fake p_tamper: 0.99999
Area: 31.65% Regions: 2

canong3_canonxt_sub_01 | Decision: FAKE | p_fake=1.000 | area=31.65% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat
Pred: Fake p_tamper: 0.99999
Area: 32.59% Regions: 7

canong3_canonxt_sub_01 | Decision: FAKE | p_fake=1.000 | area=32.59% | blobs=7

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo
Pred: Fake p_tamper: 0.99999
Area: 32.63% Regions: 6

canong3_canonxt_sub_01 | Decision: FAKE | p_fake=1.000 | area=32.63% | blobs=6

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp
Pred: Fake p_tamper: 0.99999
Area: 31.69% Regions: 2

canong3_canonxt_sub_01 | Decision: FAKE | p_fake=1.000 | area=31.69% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 02/20

ID: canonng3_canonxt_sub_02

Original

Prediction Heatmap

Predicted Mask

Location Overlay

Original

Prediction Heatmap

Predicted Mask

Location Overlay

canonng3_canonxt_sub_02 | Decision: FAKE | p_tamper: 1.0000 | area: 29.85% | blobs: 1

Original

Prediction Heatmap

Predicted Mask

Location Overlay

Original

Prediction Heatmap

Predicted Mask

Location Overlay

canonng3_canonxt_sub_02 | Decision: FAKE | p_tamper: 1.0000 | area: 29.78% | blobs: 1

Original

Prediction Heatmap

Predicted Mask

Location Overlay

Original

Prediction Heatmap

Predicted Mask

Location Overlay

canonng3_canonxt_sub_02 | Decision: FAKE | p_tamper: 1.0000 | area: 29.89% | blobs: 1

Original

Prediction Heatmap

Predicted Mask

Location Overlay

Original

Prediction Heatmap

Predicted Mask

Location Overlay

canonng3_canonxt_sub_02 | Decision: FAKE | p_tamper: 1.0000 | area: 29.31% | blobs: 2

Original

Prediction Heatmap

Predicted Mask

Location Overlay

Original

Prediction Heatmap

Predicted Mask

Location Overlay

canonng3_canonxt_sub_02 | Decision: FAKE | p_tamper: 1.0000 | area: 29.77% | blobs: 1

Original

Prediction Heatmap

Predicted Mask

Location Overlay

Original

Prediction Heatmap

Predicted Mask

Location Overlay

canonng3_canonxt_sub_02 | Decision: FAKE | p_tamper: 1.0000 | area: 29.77% | blobs: 1

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 03/20

ID: canong3_canonxt_sub_03

Original

Predicted Mask

Localization Overlay

canong3_canonxt_sub_03 | Decision FAKS | p_tamper=1.000 | area=33.66% | blobs=2

Original

Predicted Mask

Localization Overlay

canong3_canonxt_sub_03 | Decision FAKS | p_tamper=1.000 | area=33.66% | blobs=2

Original

Predicted Mask

Localization Overlay

Original

Predicted Mask

Localization Overlay

canong3_canonxt_sub_03 | Decision FAKS | p_tamper=1.000 | area=33.69% | blobs=2

Original

Predicted Mask

Localization Overlay

canong3_canonxt_sub_03 | Decision FAKS | p_tamper=1.000 | area=33.69% | blobs=2

Original

Predicted Mask

Localization Overlay

Original

Predicted Mask

Localization Overlay

canong3_canonxt_sub_03 | Decision FAKS | p_tamper=1.000 | area=33.69% | blobs=2

Original

Predicted Mask

Localization Overlay

canong3_canonxt_sub_03 | Decision FAKS | p_tamper=1.000 | area=33.69% | blobs=2

Original

Predicted Mask

Localization Overlay

Original

Predicted Mask

Localization Overlay

canong3_canonxt_sub_03 | Decision FAKS | p_tamper=1.000 | area=33.67% | blobs=2

Original

Predicted Mask

Localization Overlay

canong3_canonxt_sub_03 | Decision FAKS | p_tamper=1.000 | area=33.67% | blobs=2

Original

Predicted Mask

Localization Overlay

Original

Predicted Mask

Localization Overlay

canong3_canonxt_sub_03 | Decision FAKS | p_tamper=1.000 | area=33.69% | blobs=2

Original

Predicted Mask

Localization Overlay

canong3_canonxt_sub_03 | Decision FAKS | p_tamper=1.000 | area=33.69% | blobs=2

Original

Predicted Mask

Localization Overlay

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 04/20

ID: canong3_canonxt_sub_04

Original

Pred: Fake p_tamper: 0.99999
Area: 24.55% Regions: 1

canong3_canonxt_sub_04 | Decision: FAKE | p_fake=1.000 | area=24.55% | blobs=1

Original

Probability Heatmap

Predicted Mask

Location Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 24.42% Regions: 1

canong3_canonxt_sub_04 | Decision: FAKE | p_fake=1.000 | area=24.42% | blobs=1

Original

Probability Heatmap

Predicted Mask

Location Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 24.60% Regions: 2

canong3_canonxt_sub_04 | Decision: FAKE | p_fake=1.000 | area=24.60% | blobs=2

Original

Probability Heatmap

Predicted Mask

Location Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 24.49% Regions: 2

canong3_canonxt_sub_04 | Decision: FAKE | p_fake=1.000 | area=24.49% | blobs=2

Original

Probability Heatmap

Predicted Mask

Location Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 24.49% Regions: 2

canong3_canonxt_sub_04 | Decision: FAKE | p_fake=1.000 | area=24.49% | blobs=2

Original

Probability Heatmap

Predicted Mask

Location Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 05/20

ID: canong3_canonxt_sub_05

Original

Pred: Fake p_tamper: 0.99999
Area: 26.49% Regions: 1

canong3_canonxt_sub_05 | Decision: FAKE | p_fake=1.000 | area=26.49% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 26.54% Regions: 1

canong3_canonxt_sub_05 | Decision: FAKE | p_fake=1.000 | area=26.54% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 26.62% Regions: 1

canong3_canonxt_sub_05 | Decision: FAKE | p_fake=1.000 | area=26.62% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 26.49% Regions: 1

canong3_canonxt_sub_05 | Decision: FAKE | p_fake=1.000 | area=26.49% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 26.53% Regions: 1

canong3_canonxt_sub_05 | Decision: FAKE | p_fake=1.000 | area=26.53% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

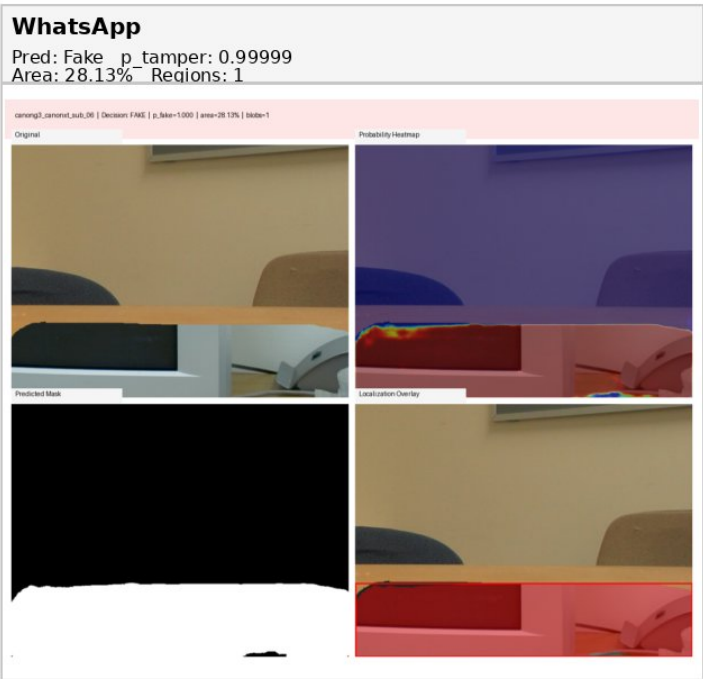
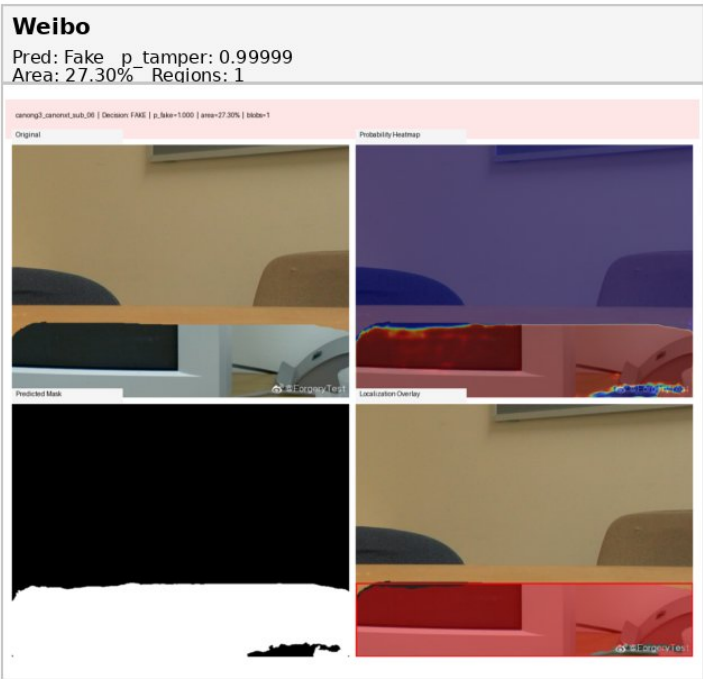
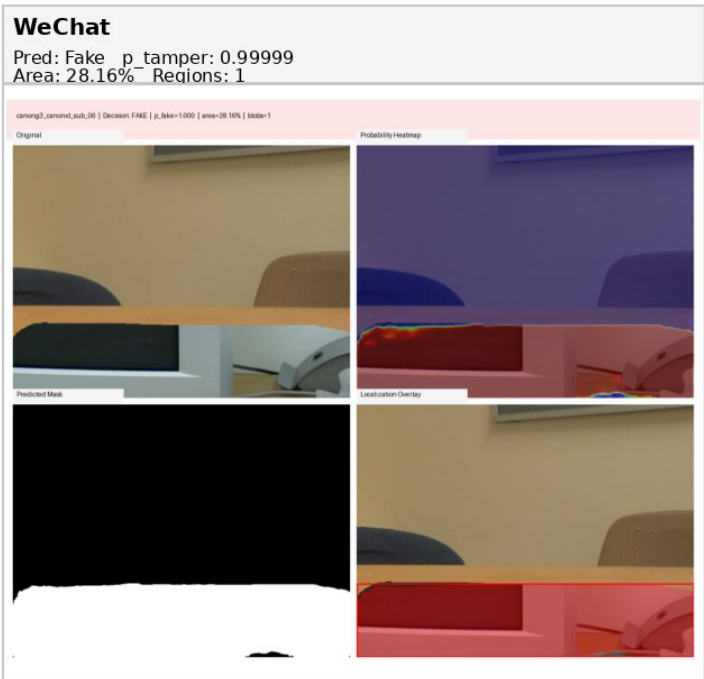
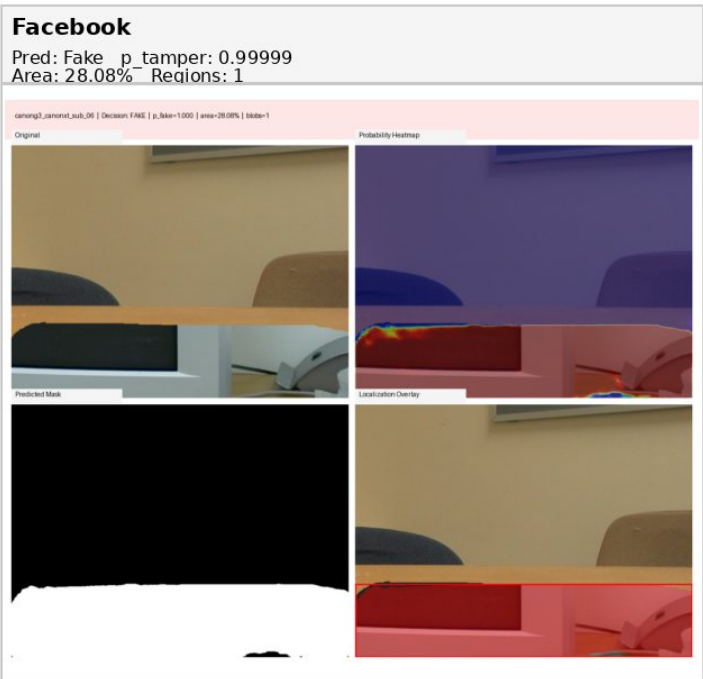
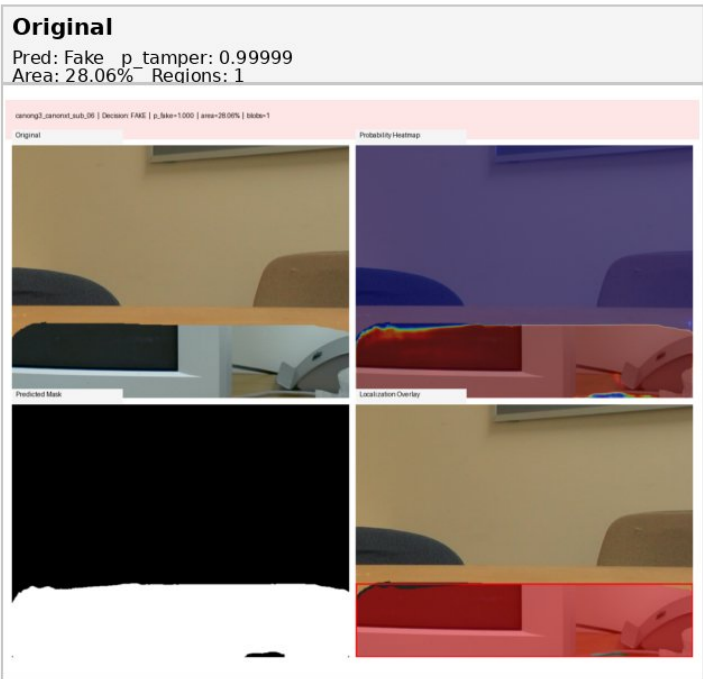
Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 06/20

ID: canong3_canonxt_sub_06



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

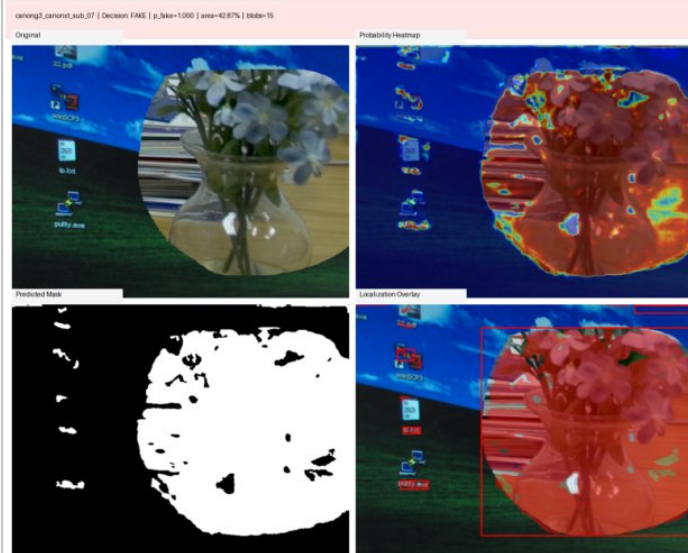
Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 07/20

ID: canong3_canonxt_sub_07

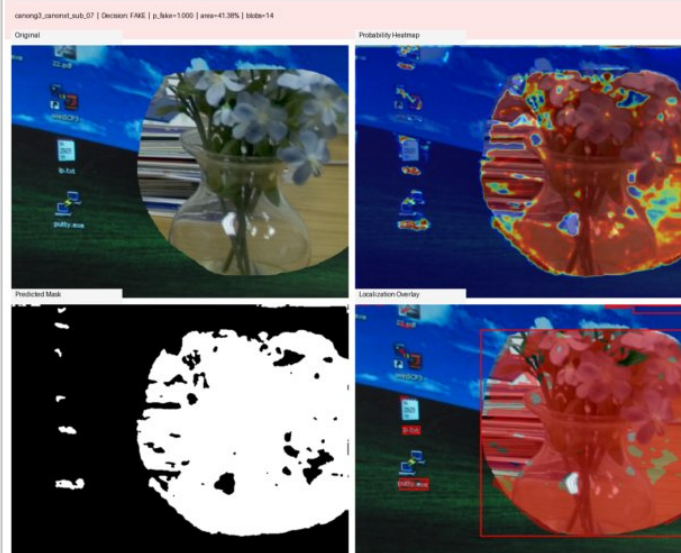
Original

Pred: Fake p_tamper: 0.99999
Area: 42.87% Regions: 15



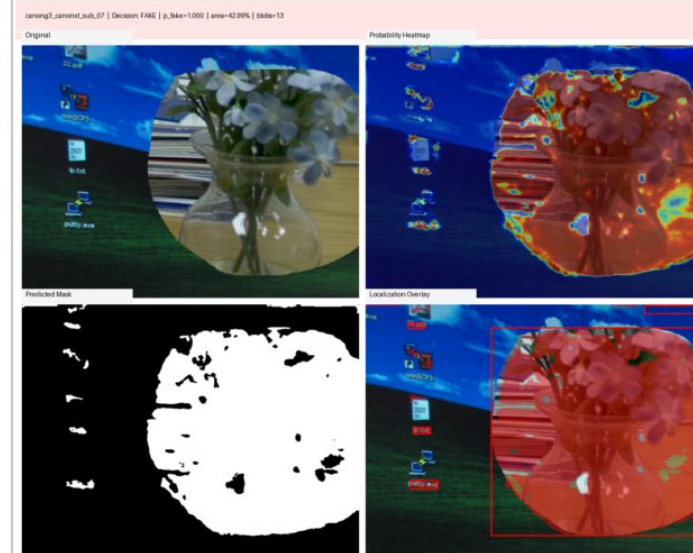
Facebook

Pred: Fake p_tamper: 0.99999
Area: 41.38% Regions: 14



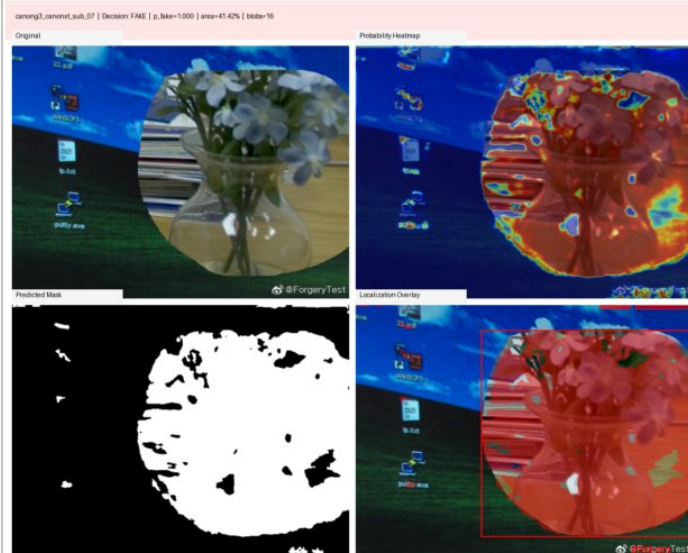
WeChat

Pred: Fake p_tamper: 0.99999
Area: 42.99% Regions: 13



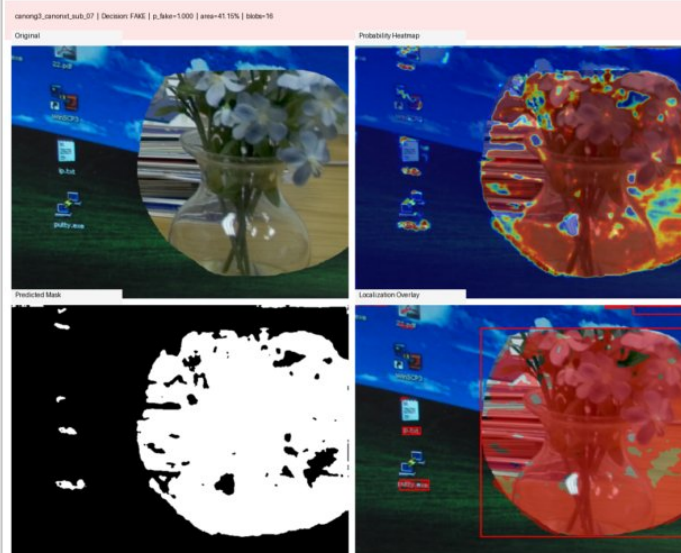
Weibo

Pred: Fake p_tamper: 0.99999
Area: 41.42% Regions: 16



WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 41.15% Regions: 16



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 08/20

ID: canong3_canonxt_sub_08

Original

Pred: Fake p_tamper: 0.99999
Area: 42.83% Regions: 12

canong3_canonxt_sub_08 | Decision: FAKE | p_tamper: 1.000 | area=42.83% | blobs=12

Original

Probability Heatmap

Predicted Mask

Location Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 39.72% Regions: 12

canong3_canonxt_sub_08 | Decision: FAKE | p_tamper: 1.000 | area=39.72% | blobs=12

Original

Probability Heatmap

Predicted Mask

Location Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 43.13% Regions: 19

canong3_canonxt_sub_08 | Decision: FAKE | p_tamper: 1.000 | area=43.13% | blobs=19

Original

Probability Heatmap

Predicted Mask

Location Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 44.22% Regions: 16

canong3_canonxt_sub_08 | Decision: FAKE | p_tamper: 1.000 | area=44.22% | blobs=16

Original

Probability Heatmap

Predicted Mask

Location Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 40.57% Regions: 13

canong3_canonxt_sub_08 | Decision: FAKE | p_tamper: 1.000 | area=40.57% | blobs=13

Original

Probability Heatmap

Predicted Mask

Location Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 09/20

ID: canong3_canonxt_sub_09

Original

Pred: Fake p_tamper: 1.00000
Area: 33.24% Regions: 4

canong3_canonxt_sub_09 | Decision: FAKE | p_tamper: 1.000 | area: 33.24% | blobs: 4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 32.53% Regions: 3

canong3_canonxt_sub_09 | Decision: FAKE | p_tamper: 1.000 | area: 32.53% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 33.13% Regions: 1

canong3_canonxt_sub_09 | Decision: FAKE | p_tamper: 1.000 | area: 33.13% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 33.38% Regions: 3

canong3_canonxt_sub_09 | Decision: FAKE | p_tamper: 1.000 | area: 33.38% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 1.00000
Area: 32.59% Regions: 3

canong3_canonxt_sub_09 | Decision: FAKE | p_tamper: 1.000 | area: 32.59% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

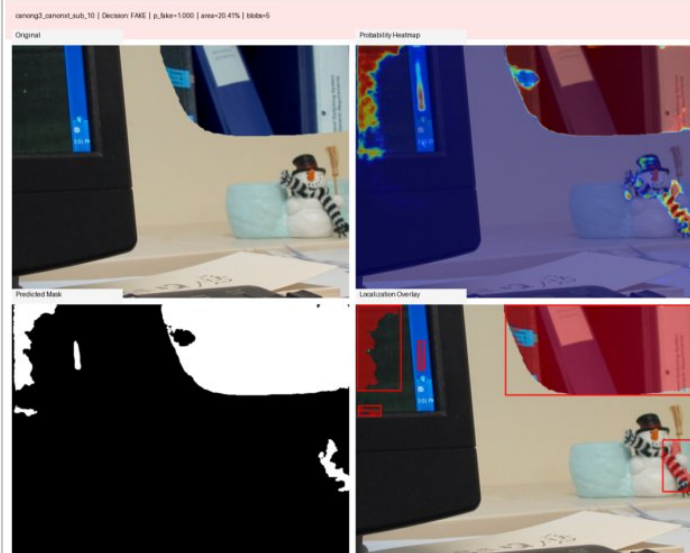
Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 10/20

ID: canong3_canonxt_sub_10

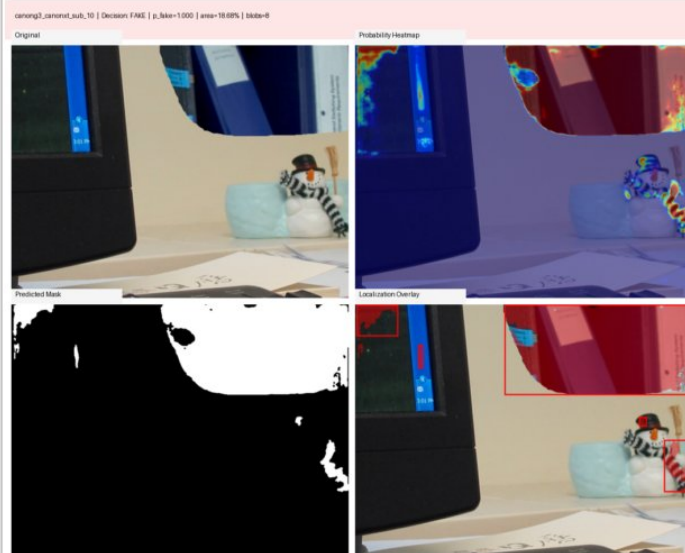
Original

Pred: Fake p_tamper: 0.99999
Area: 20.41% Regions: 5



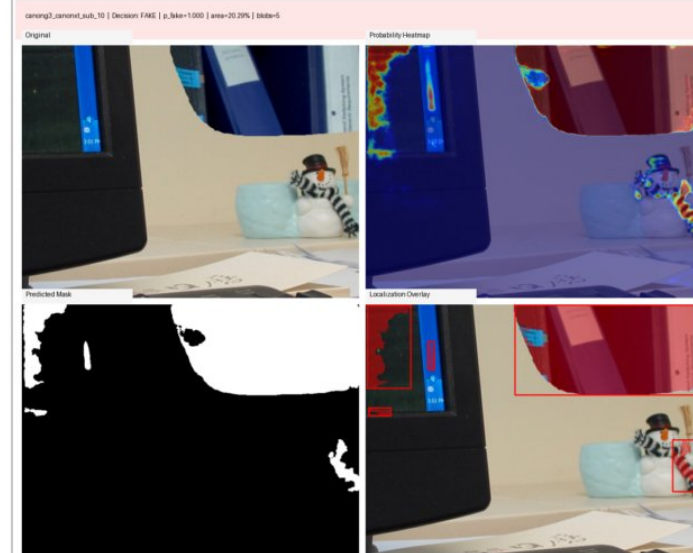
Facebook

Pred: Fake p_tamper: 0.99999
Area: 18.68% Regions: 8



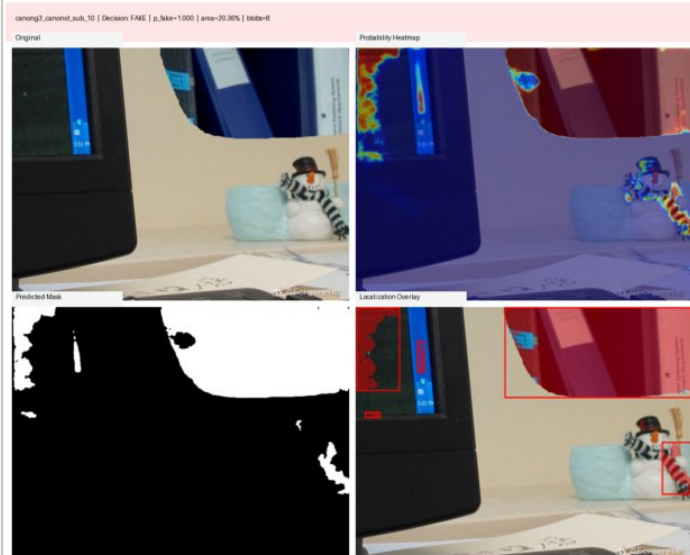
WeChat

Pred: Fake p_tamper: 1.00000
Area: 20.29% Regions: 5



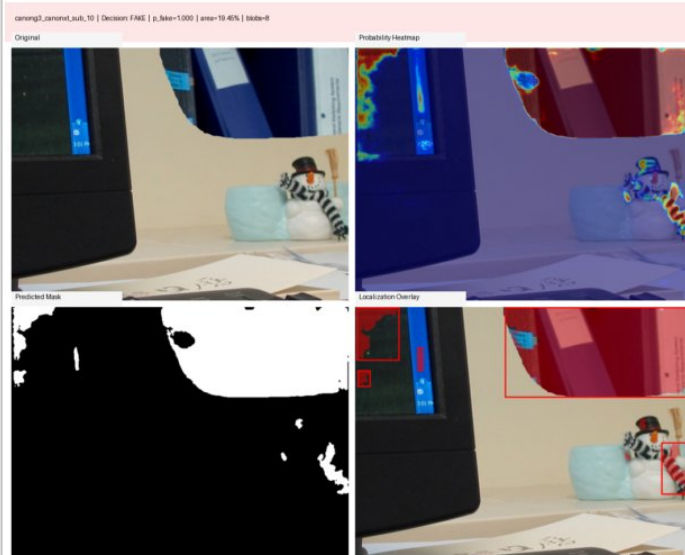
Weibo

Pred: Fake p_tamper: 1.00000
Area: 20.36% Regions: 8



WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 19.45% Regions: 8



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

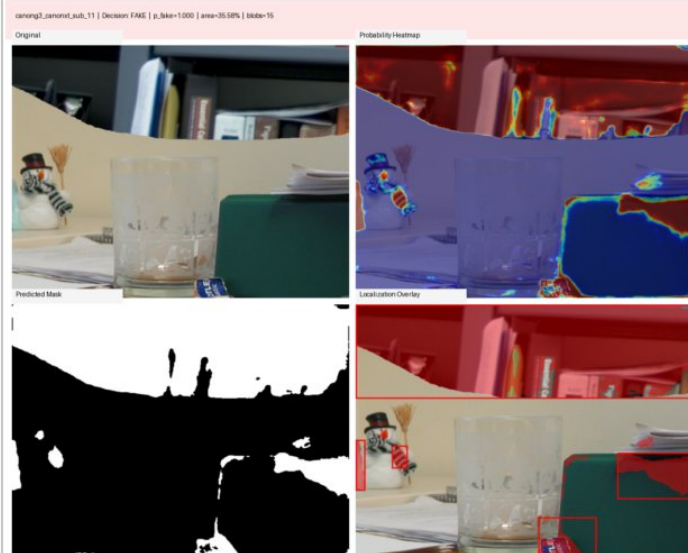
Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 11/20

ID: canong3_canonxt_sub_11

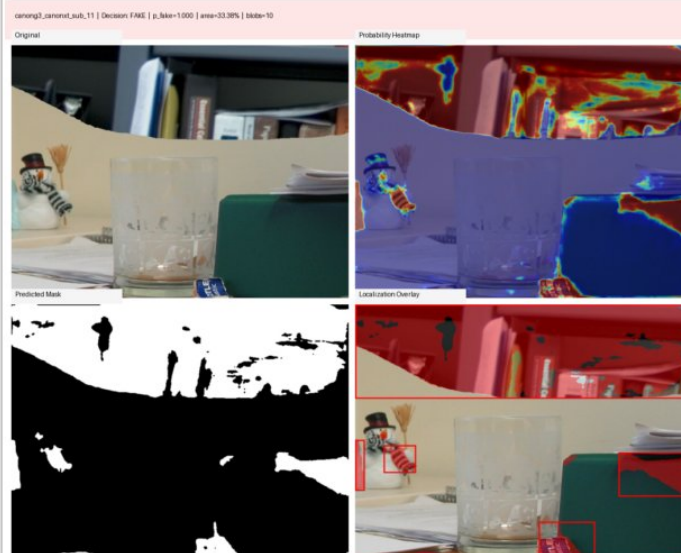
Original

Pred: Fake p_tamper: 0.99999
Area: 35.58% Regions: 15



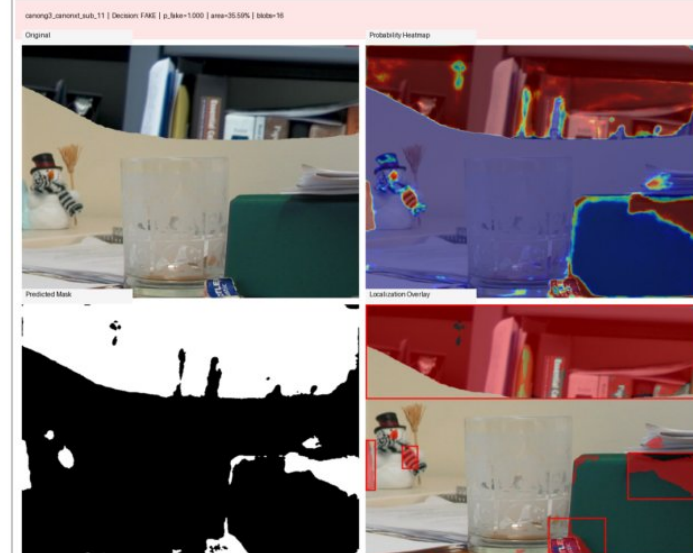
Facebook

Pred: Fake p_tamper: 0.99999
Area: 33.38% Regions: 10



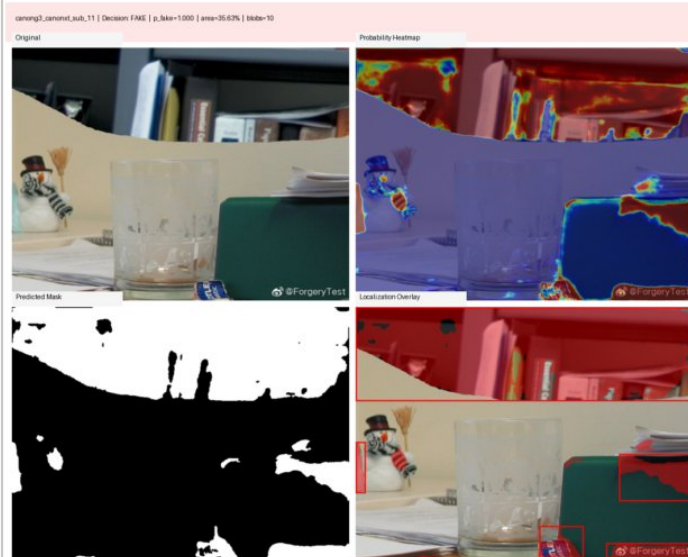
WeChat

Pred: Fake p_tamper: 0.99999
Area: 35.59% Regions: 16



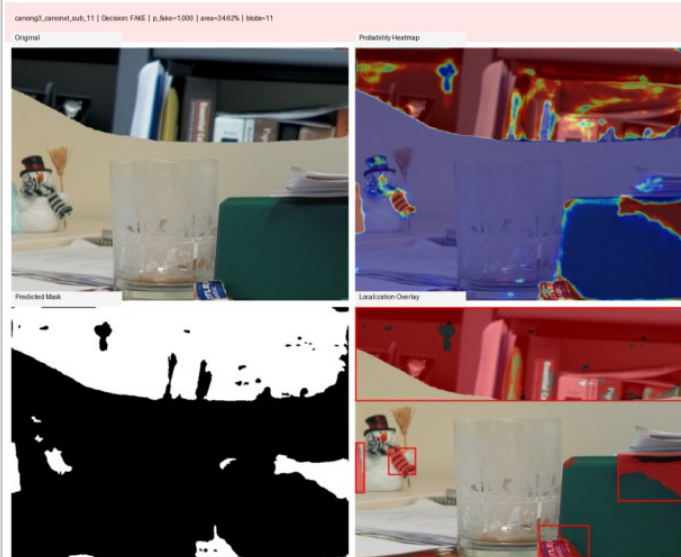
Weibo

Pred: Fake p_tamper: 0.99999
Area: 35.63% Regions: 10



WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 34.62% Regions: 11



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 12/20

ID: canong3_canonxt_sub_12

Original

Pred: Fake p_tamper: 1.00000
Area: 31.63% Regions: 4

canong3_canonxt_sub_12 | Decision: FAKE | p_tamper: 1.000 | area=31.63% | blobs=4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 1.00000
Area: 31.38% Regions: 4

canong3_canonxt_sub_12 | Decision: FAKE | p_tamper: 1.000 | area=31.38% | blobs=4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 1.00000
Area: 31.62% Regions: 4

canong3_canonxt_sub_12 | Decision: FAKE | p_tamper: 1.000 | area=31.62% | blobs=4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 31.74% Regions: 5

canong3_canonxt_sub_12 | Decision: FAKE | p_tamper: 1.000 | area=31.74% | blobs=5

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 1.00000
Area: 31.50% Regions: 2

canong3_canonxt_sub_12 | Decision: FAKE | p_tamper: 1.000 | area=31.50% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

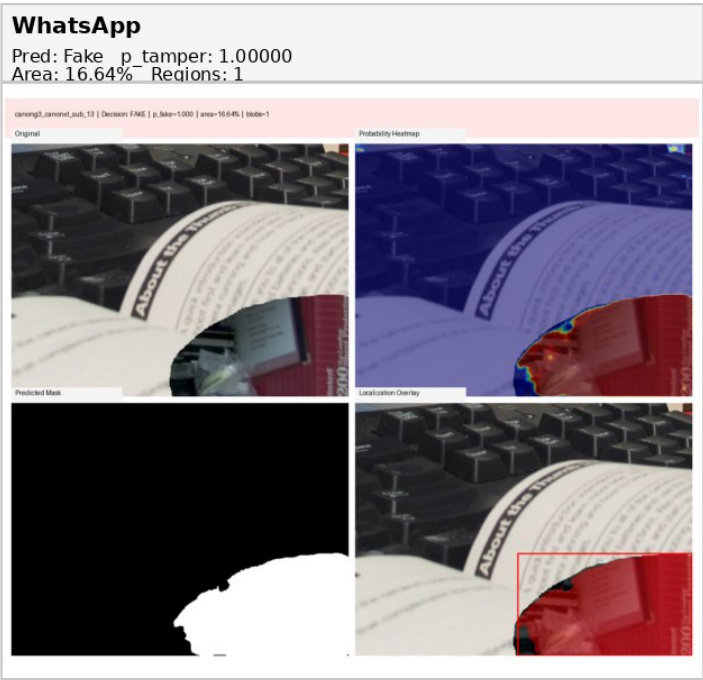
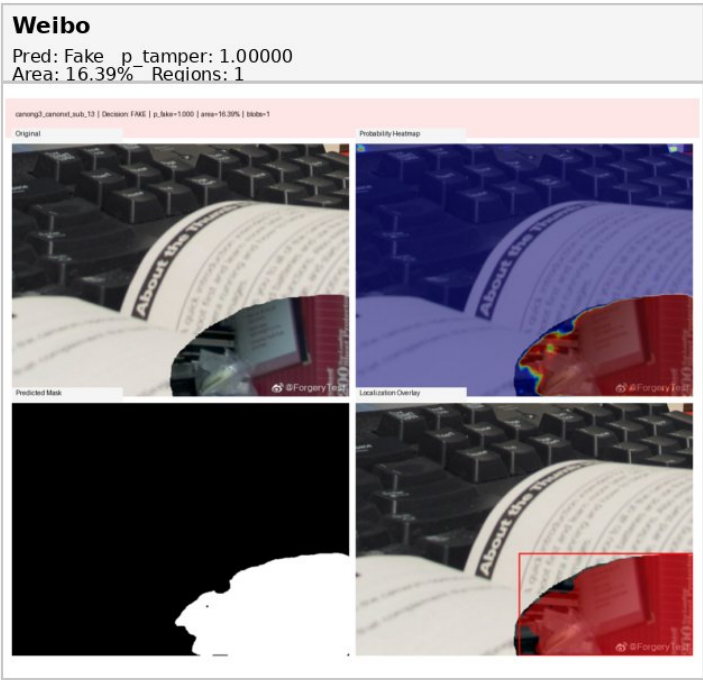
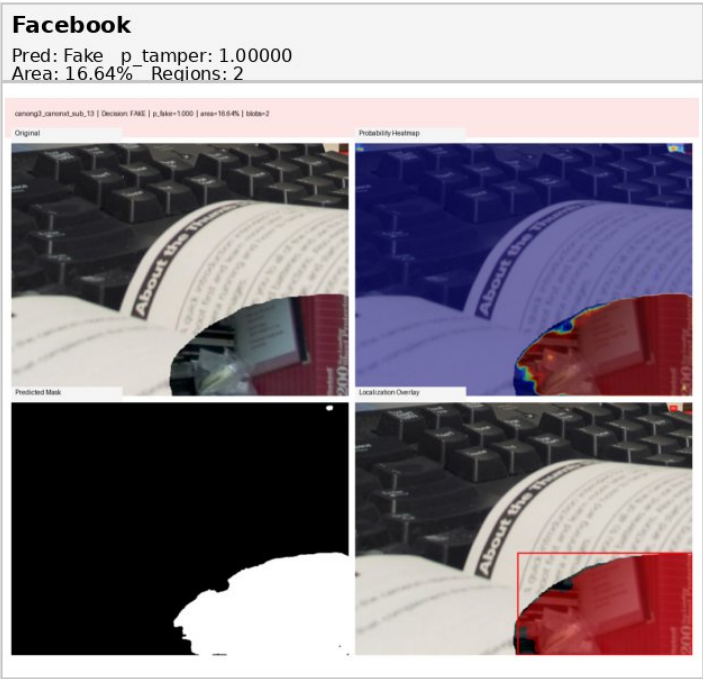
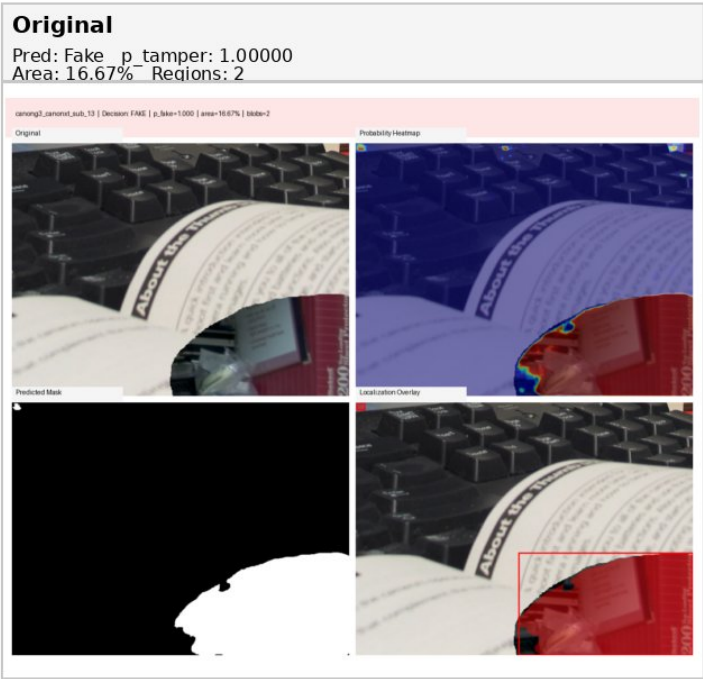
Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 13/20

ID: canonng3_canonxt_sub_13



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 14/20

ID: canong3_canonxt_sub_14

Original

Pred: Fake p_tamper: 0.99999
Area: 46.47% Regions: 10

canong3_canonxt_sub_14 | Decision: FAKE | p_fake=1.000 | area=46.47% | blobs=10

Original

Probability Heatmap

Predicted Mask

Location Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 44.61% Regions: 8

canong3_canonxt_sub_14 | Decision: FAKE | p_fake=1.000 | area=44.61% | blobs=8

Original

Probability Heatmap

Predicted Mask

Location Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 46.30% Regions: 10

canong3_canonxt_sub_14 | Decision: FAKE | p_fake=1.000 | area=46.30% | blobs=10

Original

Probability Heatmap

Predicted Mask

Location Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 46.93% Regions: 9

canong3_canonxt_sub_14 | Decision: FAKE | p_fake=1.000 | area=46.93% | blobs=9

Original

Probability Heatmap

Predicted Mask

Location Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 44.96% Regions: 8

canong3_canonxt_sub_14 | Decision: FAKE | p_fake=1.000 | area=44.96% | blobs=8

Original

Probability Heatmap

Predicted Mask

Location Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 15/20

ID: canong3_canonxt_sub_15

Original

Pred: Fake p_tamper: 0.99999
Area: 52.97% Regions: 1

canong3_canonxt_sub_15 | Decision: FAKE | p_tamper: 1.000 | area=52.97% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 51.86% Regions: 2

canong3_canonxt_sub_15 | Decision: FAKE | p_tamper: 1.000 | area=51.86% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 53.08% Regions: 3

canong3_canonxt_sub_15 | Decision: FAKE | p_tamper: 1.000 | area=53.08% | blobs=3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 53.51% Regions: 2

canong3_canonxt_sub_15 | Decision: FAKE | p_tamper: 1.000 | area=53.51% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 52.31% Regions: 1

canong3_canonxt_sub_15 | Decision: FAKE | p_tamper: 1.000 | area=52.31% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 16/20

ID: canong3_canonxt_sub_16

Original

Pred: Fake p_tamper: 0.99999
Area: 25.22% Regions: 5

canong3_canonxt_sub_16 | Decision: FAKE | p_tamper: 1.000 | area: 25.22% | blobs: 5

Original

Probability Heatmap

Predicted Mask

Location Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 25.20% Regions: 6

canong3_canonxt_sub_16 | Decision: FAKE | p_tamper: 1.000 | area: 25.20% | blobs: 6

Original

Probability Heatmap

Predicted Mask

Location Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 25.26% Regions: 8

canong3_canonxt_sub_16 | Decision: FAKE | p_tamper: 1.000 | area: 25.26% | blobs: 8

Original

Probability Heatmap

Predicted Mask

Location Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 25.26% Regions: 5

canong3_canonxt_sub_16 | Decision: FAKE | p_tamper: 1.000 | area: 25.26% | blobs: 5

Original

Probability Heatmap

Predicted Mask

Location Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 25.22% Regions: 5

canong3_canonxt_sub_16 | Decision: FAKE | p_tamper: 1.000 | area: 25.22% | blobs: 5

Original

Probability Heatmap

Predicted Mask

Location Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 17/20

ID: canong3_canonxt_sub_17

Original

Pred: Fake p_tamper: 0.99999
Area: 29.16% Regions: 2

canong3_canonxt_sub_17 | Decision: FAKE | p_fake=1.000 | area=29.16% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 29.02% Regions: 4

canong3_canonxt_sub_17 | Decision: FAKE | p_fake=1.000 | area=29.02% | blobs=4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 29.21% Regions: 3

canong3_canonxt_sub_17 | Decision: FAKE | p_fake=1.000 | area=29.21% | blobs=3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 29.22% Regions: 3

canong3_canonxt_sub_17 | Decision: FAKE | p_fake=1.000 | area=29.22% | blobs=3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 29.03% Regions: 4

canong3_canonxt_sub_17 | Decision: FAKE | p_fake=1.000 | area=29.03% | blobs=4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 18/20

ID: canong3_canonxt_sub_18

Original

Pred: Fake p_tamper: 0.99999
Area: 31.26% Regions: 1

canong3_canonxt_sub_18 | Decision: FAKE | p_tamper: 1.000 | area: 31.26% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 31.43% Regions: 1

canong3_canonxt_sub_18 | Decision: FAKE | p_tamper: 1.000 | area: 31.43% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 31.34% Regions: 1

canong3_canonxt_sub_18 | Decision: FAKE | p_tamper: 1.000 | area: 31.34% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 31.46% Regions: 1

canong3_canonxt_sub_18 | Decision: FAKE | p_tamper: 1.000 | area: 31.46% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 31.41% Regions: 1

canong3_canonxt_sub_18 | Decision: FAKE | p_tamper: 1.000 | area: 31.41% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 19/20

ID: canong3_canonxt_sub_19

Original

Pred: Fake p_tamper: 0.99999
Area: 32.58% Regions: 2

canong3_canonxt_sub_19 | Decision: FAKE | p_tamper: 1.000 | area: 32.58% | blobs: 2

Original

Probability Heatmap

Predicted Mask

Location Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 32.06% Regions: 3

canong3_canonxt_sub_19 | Decision: FAKE | p_tamper: 1.000 | area: 32.06% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Location Overlay

WeChat

Pred: Fake p_tamper: 0.99997
Area: 32.08% Regions: 1

canong3_canonxt_sub_19 | Decision: FAKE | p_tamper: 1.000 | area: 32.08% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Location Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 32.58% Regions: 5

canong3_canonxt_sub_19 | Decision: FAKE | p_tamper: 1.000 | area: 32.58% | blobs: 5

Original

Probability Heatmap

Predicted Mask

Location Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 32.09% Regions: 1

canong3_canonxt_sub_19 | Decision: FAKE | p_tamper: 1.000 | area: 32.09% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Location Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - Columbia - Sample 20/20

ID: canong3_canonxt_sub_20

Original
Pred: Fake p_tamper: 0.99992
Area: 29.17% Regions: 5

canong3_canonxt_sub_20 | Decision: FAKE | p_tamper: 1.000 | area: 29.17% | blobs: 6

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook
Pred: Fake p_tamper: 0.99996
Area: 26.82% Regions: 3

canong3_canonxt_sub_20 | Decision: FAKE | p_tamper: 1.000 | area: 26.82% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat
Pred: Fake p_tamper: 0.99994
Area: 28.96% Regions: 4

canong3_canonxt_sub_20 | Decision: FAKE | p_tamper: 1.000 | area: 28.96% | blobs: 4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo
Pred: Fake p_tamper: 0.99999
Area: 29.27% Regions: 7

canong3_canonxt_sub_20 | Decision: FAKE | p_tamper: 1.000 | area: 29.27% | blobs: 7

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp
Pred: Fake p_tamper: 0.99996
Area: 27.06% Regions: 3

canong3_canonxt_sub_20 | Decision: FAKE | p_tamper: 1.000 | area: 27.06% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 01/20

ID: splicing-01

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

splicing-01 | Decision: FAKE | p_tamper: 1.00000 | Area: 6.08% | Regions: 20

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

splicing-01 | Decision: FAKE | p_tamper: 1.00000 | Area: 5.89% | Regions: 24

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

splicing-01 | Decision: FAKE | p_tamper: 0.99999 | Area: 6.09% | Regions: 20

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

splicing-01 | Decision: FAKE | p_tamper: 1.00000 | Area: 5.92% | Regions: 17

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

splicing-01 | Decision: FAKE | p_tamper: 0.99999 | Area: 5.71% | Regions: 15

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 02/20

ID: splicing-02

Original

Prediction: Fake, p_tamper: 1.00000, Area: 4.42%, Regions: 33

splicing-02 | Decision: FAKE | p_tamper: 1.000 | area: 4.42% | blobs: 33

Original

Probability Heatmap

Predicted Mask

Location Overlay



Facebook

Prediction: Fake, p_tamper: 1.00000, Area: 4.23%, Regions: 31

splicing-02 | Decision: FAKE | p_tamper: 1.000 | area: 4.23% | blobs: 31

Original

Probability Heatmap

Predicted Mask

Location Overlay



WeChat

Prediction: Fake, p_tamper: 0.99999, Area: 3.44%, Regions: 27

splicing-02 | Decision: FAKE | p_tamper: 1.000 | area: 3.44% | blobs: 27

Original

Probability Heatmap

Predicted Mask

Location Overlay



Weibo

Prediction: Fake, p_tamper: 1.00000, Area: 4.57%, Regions: 22

splicing-02 | Decision: FAKE | p_tamper: 1.000 | area: 4.57% | blobs: 22

Original

Probability Heatmap

Predicted Mask

Location Overlay



WhatsApp

Prediction: Fake, p_tamper: 0.99999, Area: 3.39%, Regions: 21

splicing-02 | Decision: FAKE | p_tamper: 1.000 | area: 3.39% | blobs: 21

Original

Probability Heatmap

Predicted Mask

Location Overlay



Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

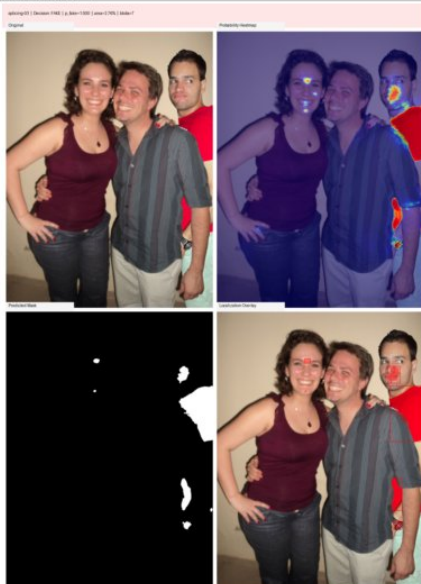
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 03/20

ID: splicing-03

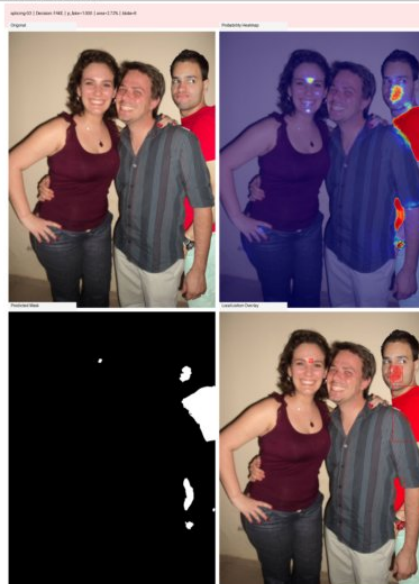
Original

Pred: Fake p_tamper: 1.00000
Area: 2.76% Regions: 7



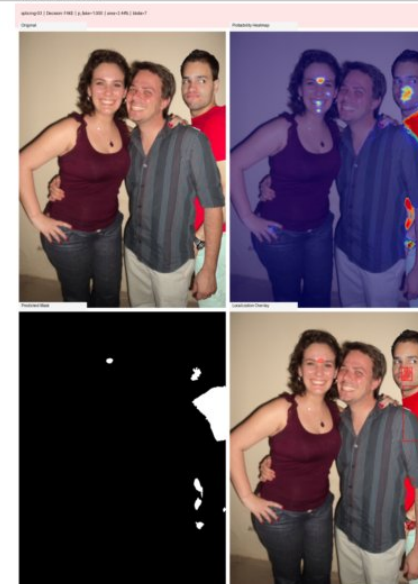
Facebook

Pred: Fake p_tamper: 1.00000
Area: 2.72% Regions: 6



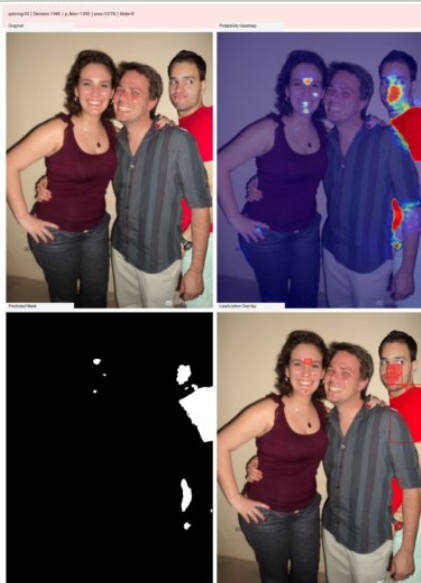
WeChat

Pred: Fake p_tamper: 1.00000
Area: 2.44% Regions: 7



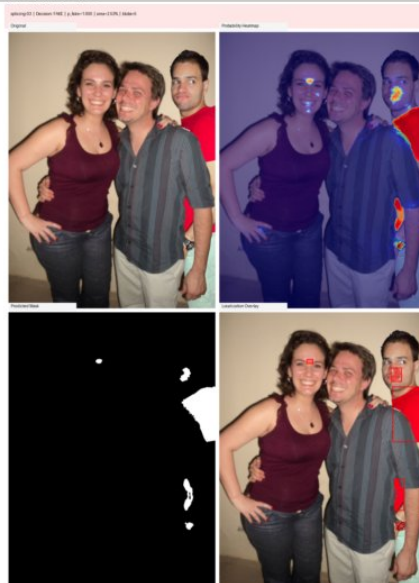
Weibo

Pred: Fake p_tamper: 1.00000
Area: 3.01% Regions: 9



WhatsApp

Pred: Fake p_tamper: 1.00000
Area: 2.53% Regions: 5



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 04/20

ID: splicing-04

Original

Pred: Fake p_tamper: 0.99999
Area: 16.40% Regions: 10

splicing 04 | Decision: FAKE | p_tamper: 1.000 | area: 16.40% | blobs: 10

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

Facebook

Pred: Fake p_tamper: 1.00000
Area: 16.34% Regions: 9

splicing 04 | Decision: FAKE | p_tamper: 1.000 | area: 16.34% | blobs: 9

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 16.17% Regions: 5

splicing 04 | Decision: FAKE | p_tamper: 1.000 | area: 16.17% | blobs: 5

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

Weibo

Pred: Fake p_tamper: 1.00000
Area: 18.61% Regions: 19

splicing 04 | Decision: FAKE | p_tamper: 1.000 | area: 18.61% | blobs: 19

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 15.85% Regions: 6

splicing 04 | Decision: FAKE | p_tamper: 1.000 | area: 15.85% | blobs: 6

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 05/20

ID: splicing-05

Original

Pred: Fake p_tamper: 0.99999
Area: 22.34% Regions: 5

splicing OS | Decision: FAKE | p_fake=1.000 | area=22.34% | blobs=5

Original

Probability Heatmap

Predicted Mask

Location Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 22.27% Regions: 7

splicing OS | Decision: FAKE | p_fake=1.000 | area=22.27% | blobs=7

Original

Probability Heatmap

Predicted Mask

Location Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 22.60% Regions: 3

splicing OS | Decision: FAKE | p_fake=1.000 | area=22.60% | blobs=3

Original

Probability Heatmap

Predicted Mask

Location Overlay

Weibo

Pred: Fake p_tamper: 1.00000
Area: 20.82% Regions: 3

splicing OS | Decision: FAKE | p_fake=1.000 | area=20.82% | blobs=3

Original

Probability Heatmap

Predicted Mask

Location Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 22.32% Regions: 4

splicing OS | Decision: FAKE | p_fake=1.000 | area=22.32% | blobs=4

Original

Probability Heatmap

Predicted Mask

Location Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 06/20

ID: splicing-06

Original

Pred: Fake p_tamper: 1.00000
Area: 4.29% Regions: 12



Facebook

Pred: Fake p_tamper: 1.00000
Area: 4.37% Regions: 10



WeChat

Pred: Fake p_tamper: 0.99999
Area: 4.31% Regions: 11



Weibo

Pred: Fake p_tamper: 0.99999
Area: 4.39% Regions: 9



WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 4.32% Regions: 7



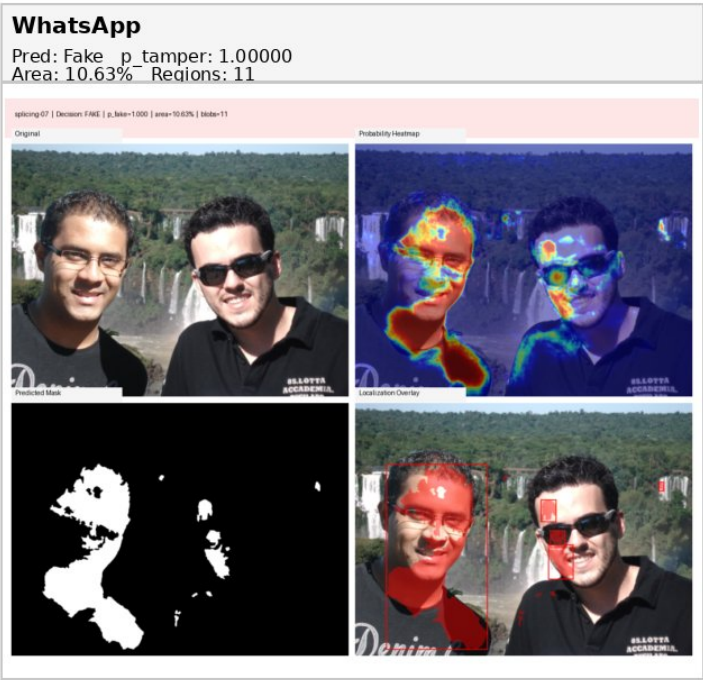
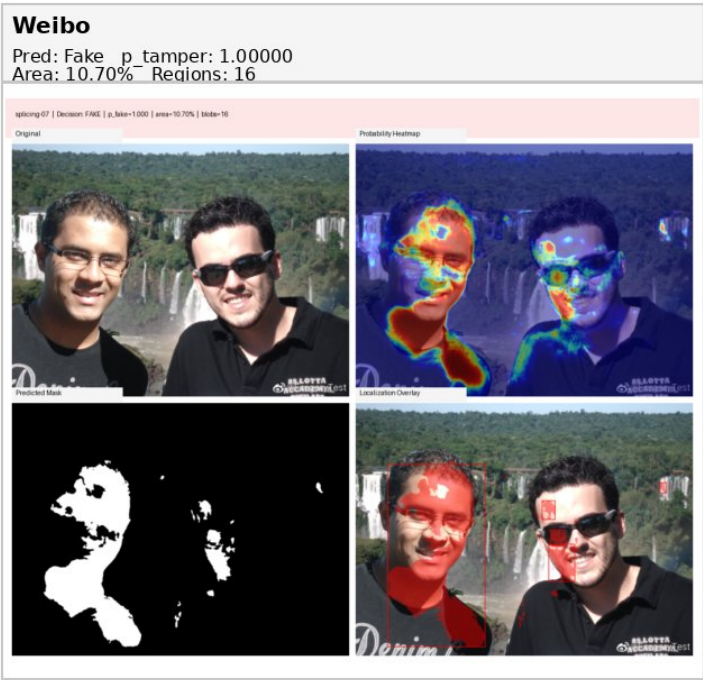
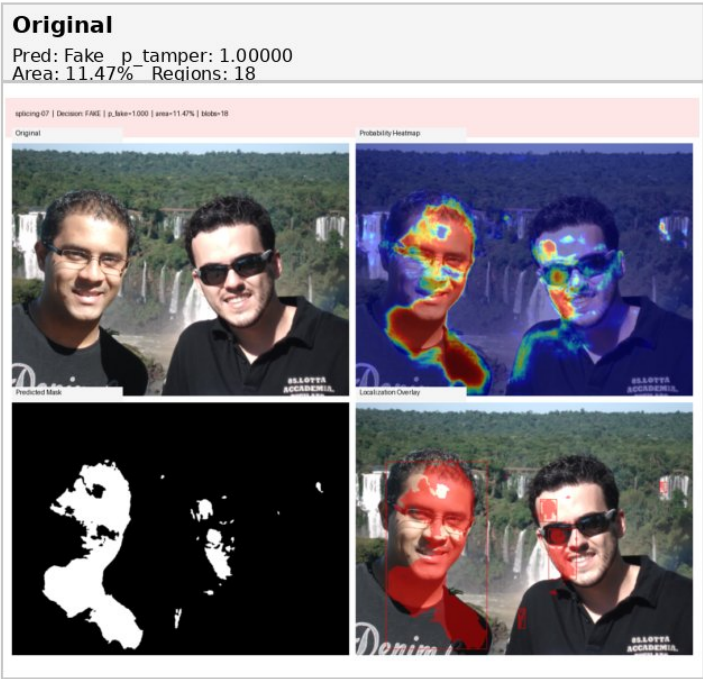
Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 07/20

ID: splicing-07



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 08/20

ID: splicing-08

Original

Pred: Fake p_tamper: 1.00000
Area: 17.24% Regions: 10

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 1.00000
Area: 17.15% Regions: 17

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 17.65% Regions: 7

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 1.00000
Area: 16.64% Regions: 10

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 17.41% Regions: 7

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 09/20

ID: splicing-09

Original

Pred: Fake p_tamper: 1.00000
Area: 6.33% Regions: 9

splicing 09 | Decision: FAKE | p_tamper: 1.000 | area=6.33% | blobs=9

Original

Probability Heatmap

Predicted Mask

Localization Overlay



Facebook

Pred: Fake p_tamper: 1.00000
Area: 6.31% Regions: 10

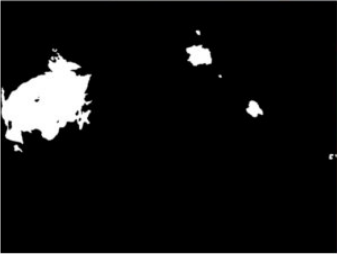
splicing 09 | Decision: FAKE | p_tamper: 1.000 | area=6.31% | blobs=10

Original

Probability Heatmap

Predicted Mask

Localization Overlay



WeChat

Pred: Fake p_tamper: 0.99999
Area: 6.15% Regions: 9

splicing 09 | Decision: FAKE | p_tamper: 1.000 | area=6.15% | blobs=9

Original

Probability Heatmap

Predicted Mask

Localization Overlay



Weibo

Pred: Fake p_tamper: 1.00000
Area: 6.28% Regions: 6

splicing 09 | Decision: FAKE | p_tamper: 1.000 | area=6.28% | blobs=6

Original

Probability Heatmap

Predicted Mask

Localization Overlay



WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 6.30% Regions: 7

splicing 09 | Decision: FAKE | p_tamper: 1.000 | area=6.30% | blobs=7

Original

Probability Heatmap

Predicted Mask

Localization Overlay



Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - DSO - Sample 10/20

ID: splicing-10

Original

Pred: Fake p_tamper: 0.99999
Area: 7.20% Regions: 10

splicing-10 | Decision: FAKE | p_tamper: 1.000 | area=7.20% | blobs=10

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 1.00000
Area: 7.01% Regions: 8

splicing-10 | Decision: FAKE | p_tamper: 1.000 | area=7.01% | blobs=8

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 6.40% Regions: 6

splicing-10 | Decision: FAKE | p_tamper: 1.000 | area=6.40% | blobs=6

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 1.00000
Area: 7.59% Regions: 3

splicing-10 | Decision: FAKE | p_tamper: 1.000 | area=7.59% | blobs=3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 6.42% Regions: 3

splicing-10 | Decision: FAKE | p_tamper: 1.000 | area=6.42% | blobs=3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 11/20

ID: splicing-11

Original
Pred: Fake p_tamper: 1.00000
Area: 14.66% Regions: 33

splicing-11 | Decision: FAKE | p_tamper: 1.000 | area: 14.66% | blobs: 33

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook
Pred: Fake p_tamper: 1.00000
Area: 14.97% Regions: 25

splicing-11 | Decision: FAKE | p_tamper: 1.000 | area: 14.97% | blobs: 25

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat
Pred: Fake p_tamper: 0.99999
Area: 15.42% Regions: 32

splicing-11 | Decision: FAKE | p_tamper: 1.000 | area: 15.42% | blobs: 32

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo
Pred: Fake p_tamper: 1.00000
Area: 14.12% Regions: 26

splicing-11 | Decision: FAKE | p_tamper: 1.000 | area: 14.12% | blobs: 26

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp
Pred: Fake p_tamper: 0.99999
Area: 15.21% Regions: 24

splicing-11 | Decision: FAKE | p_tamper: 1.000 | area: 15.21% | blobs: 24

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

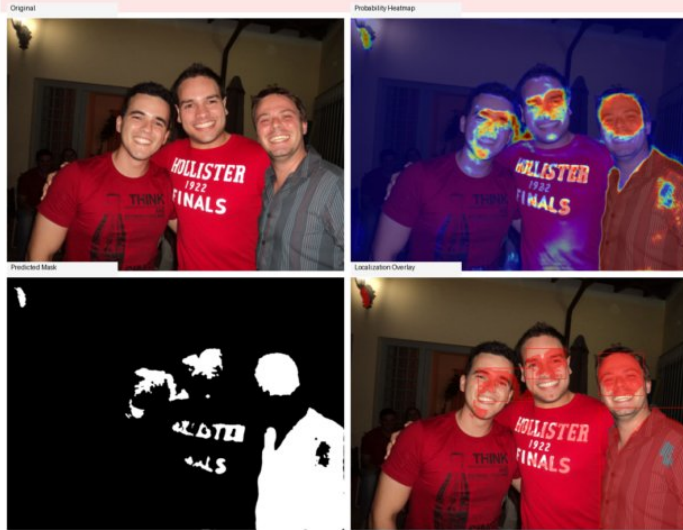
OSN Forensic Comparison - DSO - Sample 12/20

ID: splicing-12

Original

Pred: Fake p_tamper: 1.00000
Area: 15.01% Regions: 21

splicing-12 | Decision: FAKE | p_tamper: 1.000 | area: 15.01% | blobs: 21



Facebook

Pred: Fake p_tamper: 1.00000
Area: 15.17% Regions: 17

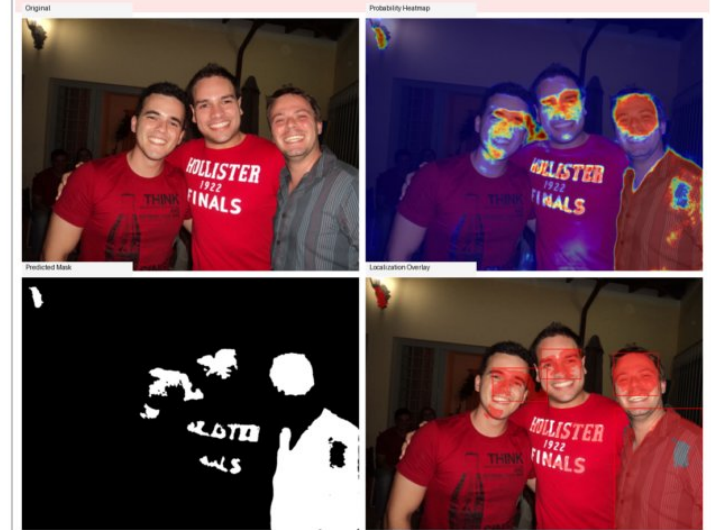
splicing-12 | Decision: FAKE | p_tamper: 1.000 | area: 15.17% | blobs: 17



WeChat

Pred: Fake p_tamper: 0.99999
Area: 15.00% Regions: 12

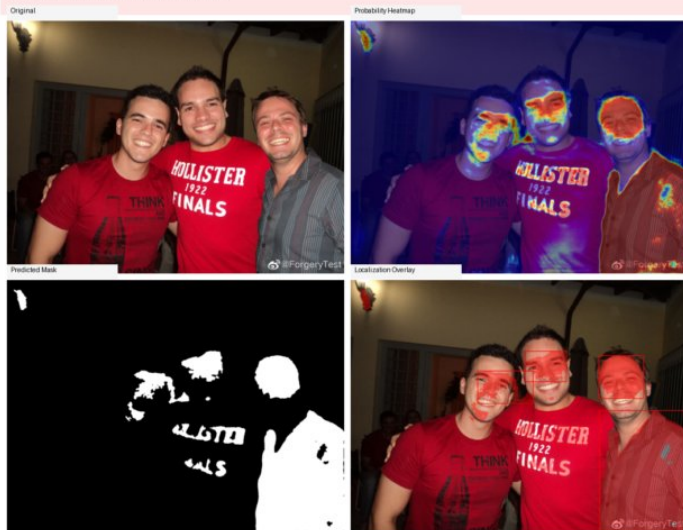
splicing-12 | Decision: FAKE | p_tamper: 1.000 | area: 15.00% | blobs: 12



Weibo

Pred: Fake p_tamper: 1.00000
Area: 15.37% Regions: 13

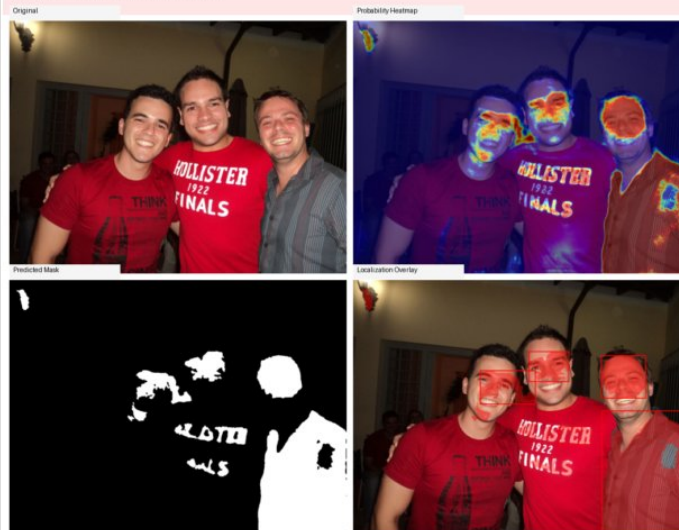
splicing-12 | Decision: FAKE | p_tamper: 1.000 | area: 15.37% | blobs: 13



WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 15.14% Regions: 11

splicing-12 | Decision: FAKE | p_tamper: 1.000 | area: 15.14% | blobs: 11



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 13/20

ID: splicing-13

Original

Prediction: Fake | p_tamper: 1.00000 | Area: 7.25% | Regions: 19

splicing-13 | Decision: FAKE | p_tamper: 1.000 | area: 7.25% | blobs: 19

Original

Probability Heatmap

Predicted Mask

Location Overlay



Facebook

Prediction: Fake | p_tamper: 1.00000 | Area: 7.22% | Regions: 14

splicing-13 | Decision: FAKE | p_tamper: 1.000 | area: 7.22% | blobs: 14

Original

Probability Heatmap

Predicted Mask

Location Overlay



WeChat

Prediction: Fake | p_tamper: 0.99999 | Area: 6.14% | Regions: 13

splicing-13 | Decision: FAKE | p_tamper: 1.000 | area: 6.14% | blobs: 13

Original

Probability Heatmap

Predicted Mask

Location Overlay



Weibo

Prediction: Fake | p_tamper: 1.00000 | Area: 8.66% | Regions: 17

splicing-13 | Decision: FAKE | p_tamper: 1.000 | area: 8.66% | blobs: 17

Original

Probability Heatmap

Predicted Mask

Location Overlay



WhatsApp

Prediction: Fake | p_tamper: 0.99999 | Area: 6.41% | Regions: 12

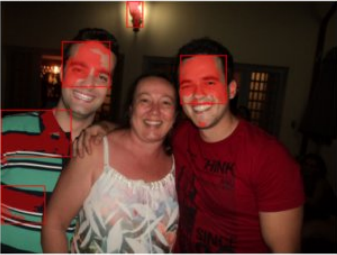
splicing-13 | Decision: FAKE | p_tamper: 1.000 | area: 6.41% | blobs: 12

Original

Probability Heatmap

Predicted Mask

Location Overlay



Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - DSO - Sample 14/20

ID: splicing-14

Original
Pred: Fake p_tamper: 1.00000
Area: 9.85% Regions: 13

splicing-14 | Decision: FAKE | p_tamper: 1.000 | area: 9.85% | blobs: 13

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook
Pred: Fake p_tamper: 1.00000
Area: 9.76% Regions: 13

splicing-14 | Decision: FAKE | p_tamper: 1.000 | area: 9.76% | blobs: 13

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat
Pred: Fake p_tamper: 0.99999
Area: 9.54% Regions: 13

splicing-14 | Decision: FAKE | p_tamper: 1.000 | area: 9.54% | blobs: 13

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo
Pred: Fake p_tamper: 1.00000
Area: 9.76% Regions: 15

splicing-14 | Decision: FAKE | p_tamper: 1.000 | area: 9.76% | blobs: 15

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp
Pred: Fake p_tamper: 0.99999
Area: 9.50% Regions: 12

splicing-14 | Decision: FAKE | p_tamper: 1.000 | area: 9.50% | blobs: 12

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 15/20

ID: splicing-15

Original

Pred: Fake p_tamper: 0.99999
Area: 1.80% Regions: 10

splicing 15 | Decision: FAKE | p_tamper: 1.000 | area=1.80% | blobs=10

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 2.21% Regions: 15

splicing 15 | Decision: FAKE | p_tamper: 1.000 | area=2.21% | blobs=15

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 2.04% Regions: 8

splicing 15 | Decision: FAKE | p_tamper: 1.000 | area=2.04% | blobs=8

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 2.68% Regions: 9

splicing 15 | Decision: FAKE | p_tamper: 1.000 | area=2.68% | blobs=9

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 1.86% Regions: 7

splicing 15 | Decision: FAKE | p_tamper: 1.000 | area=1.86% | blobs=7

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - DSO - Sample 16/20

ID: splicing-16

Original

Pred: Fake p_tamper: 1.00000
Area: 14.65% Regions: 16

splicing-16 | Decision: FAKE | p_tamper: 1.000 | area=14.65% | blobs=16

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 1.00000
Area: 15.14% Regions: 13

splicing-16 | Decision: FAKE | p_tamper: 1.000 | area=15.14% | blobs=13

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 1.00000
Area: 14.42% Regions: 13

splicing-16 | Decision: FAKE | p_tamper: 1.000 | area=14.42% | blobs=13

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 1.00000
Area: 14.76% Regions: 8

splicing-16 | Decision: FAKE | p_tamper: 1.000 | area=14.76% | blobs=8

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 1.00000
Area: 13.81% Regions: 9

splicing-16 | Decision: FAKE | p_tamper: 1.000 | area=13.81% | blobs=9

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 17/20

ID: splicing-17

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

splicing 17 | Decision: FAKE | p_tamper: 0.99999 | Area: 1.82% | Regions: 9

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

splicing 17 | Decision: FAKE | p_tamper: 0.99999 | Area: 1.85% | Regions: 12

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

splicing 17 | Decision: FAKE | p_tamper: 0.99998 | Area: 1.72% | Regions: 10

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

splicing 17 | Decision: FAKE | p_tamper: 1.00000 | Area: 1.84% | Regions: 8

Original

Probability Heatmap

Predicted Mask

Localisation Overlay

splicing 17 | Decision: FAKE | p_tamper: 0.99998 | Area: 1.71% | Regions: 7

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 18/20

ID: splicing-18

Original

Pred: Fake p_tamper: 0.99999
Area: 3.46% Regions: 10

splicing-18 | Decision: FAKE | p_tamper: 1.000 | area=3.46% | blobs=10

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 3.28% Regions: 9

splicing-18 | Decision: FAKE | p_tamper: 1.000 | area=3.28% | blobs=9

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 3.08% Regions: 10

splicing-18 | Decision: FAKE | p_tamper: 1.000 | area=3.08% | blobs=10

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 3.56% Regions: 7

splicing-18 | Decision: FAKE | p_tamper: 1.000 | area=3.56% | blobs=7

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99998
Area: 3.05% Regions: 2

splicing-18 | Decision: FAKE | p_tamper: 1.000 | area=3.05% | blobs=2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - DSO - Sample 19/20

ID: splicing-19

Original

Pred: Fake p_tamper: 0.99999
Area: 0.94% Regions: 3

splicing-19 | Decision: FAKE | p_tamper: 1.000 | area: 0.94% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 0.88% Regions: 3

splicing-19 | Decision: FAKE | p_tamper: 1.000 | area: 0.88% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 0.81% Regions: 5

splicing-19 | Decision: FAKE | p_tamper: 1.000 | area: 0.81% | blobs: 5

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 0.65% Regions: 4

splicing-19 | Decision: FAKE | p_tamper: 1.000 | area: 0.65% | blobs: 4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 0.83% Regions: 4

splicing-19 | Decision: FAKE | p_tamper: 1.000 | area: 0.83% | blobs: 4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - DSO - Sample 20/20

ID: splicing-20

Original

Pred: Fake p_tamper: 1.00000
Area: 1.50% Regions: 17

splicing 20 | Decision: FAKE | p_tamper: 1.000 | area: 1.50% | blobs: 17

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 1.00000
Area: 1.48% Regions: 17

splicing 20 | Decision: FAKE | p_tamper: 1.000 | area: 1.48% | blobs: 17

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 2.10% Regions: 13

splicing 20 | Decision: FAKE | p_tamper: 1.000 | area: 2.10% | blobs: 13

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 1.01% Regions: 16

splicing 20 | Decision: FAKE | p_tamper: 1.000 | area: 1.01% | blobs: 16

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 2.20% Regions: 10

splicing 20 | Decision: FAKE | p_tamper: 1.000 | area: 2.20% | blobs: 10

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 01/20

ID: 000001

Original

Pred: Fake p_tamper: 1.00000
Area: 4.52% Regions: 6

000001 | Decision: FAKE | p_tamper: 1.000 | area: 4.52% | blobs: 6

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 1.00000
Area: 4.50% Regions: 3

000001 | Decision: FAKE | p_tamper: 1.000 | area: 4.50% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 1.00000
Area: 4.52% Regions: 2

000001 | Decision: FAKE | p_tamper: 1.000 | area: 4.52% | blobs: 2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 1.00000
Area: 4.48% Regions: 2

000001 | Decision: FAKE | p_tamper: 1.000 | area: 4.48% | blobs: 2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 1.00000
Area: 4.56% Regions: 4

000001 | Decision: FAKE | p_tamper: 1.000 | area: 4.56% | blobs: 4

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

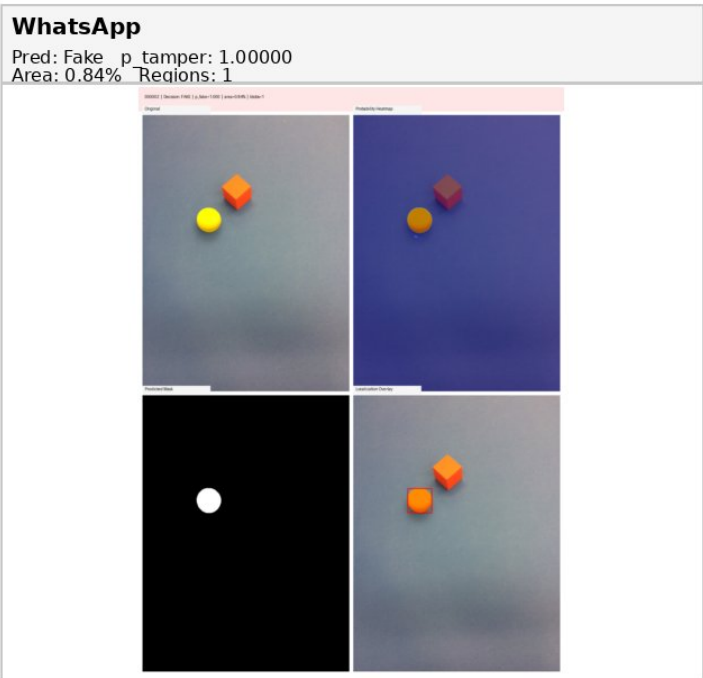
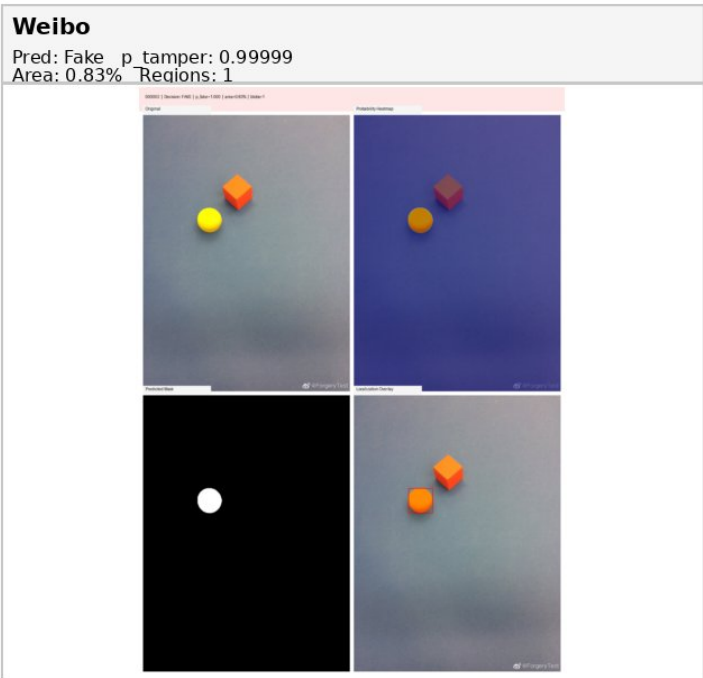
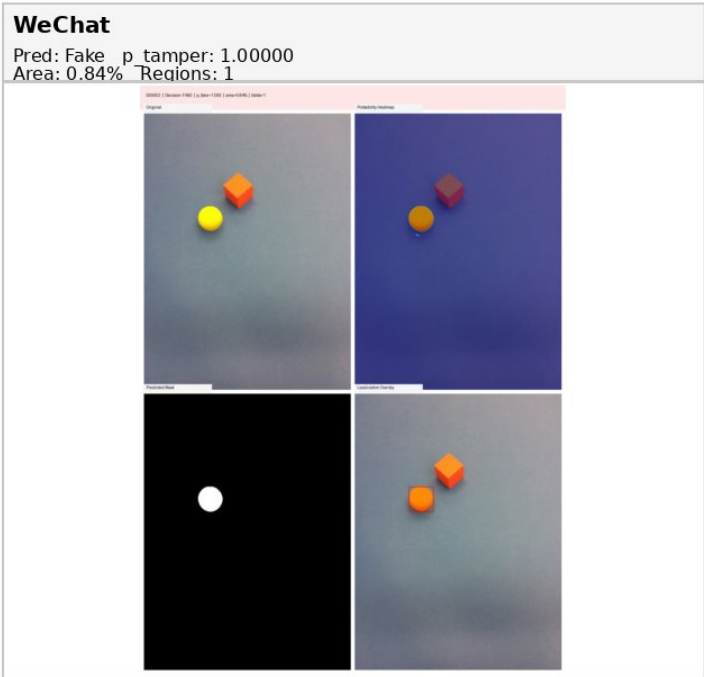
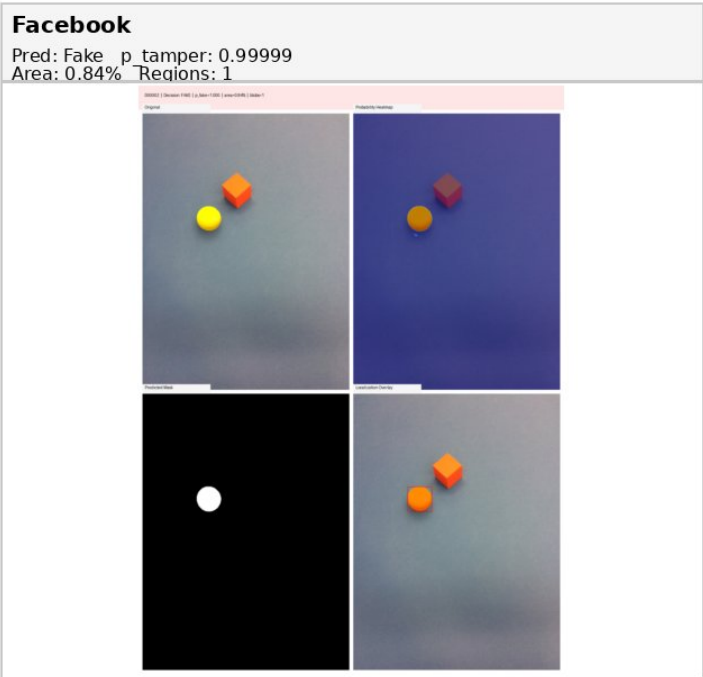
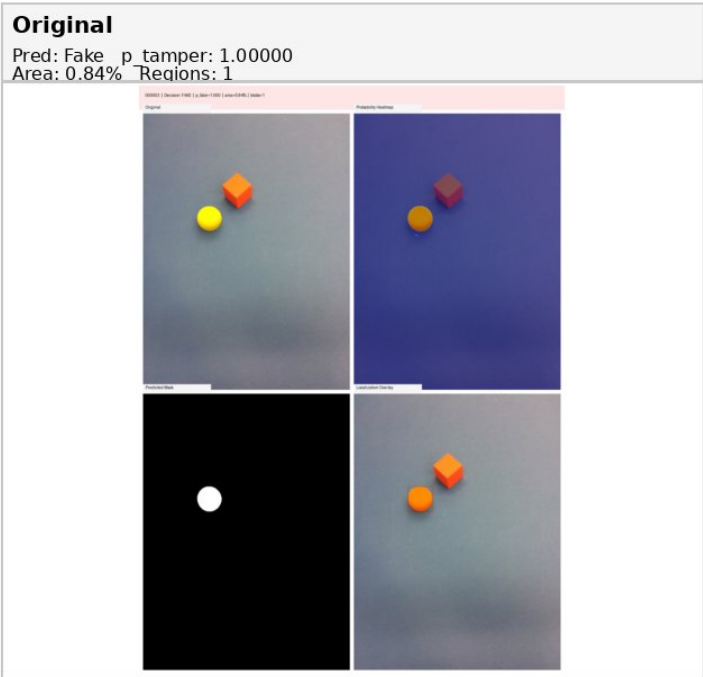
p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 02/20

ID: 000002



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

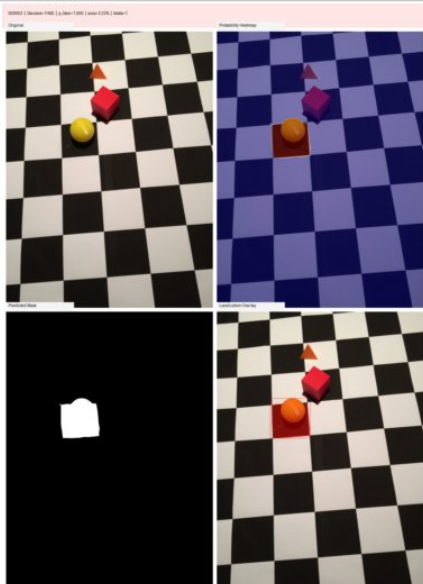
Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 03/20

ID: 000003

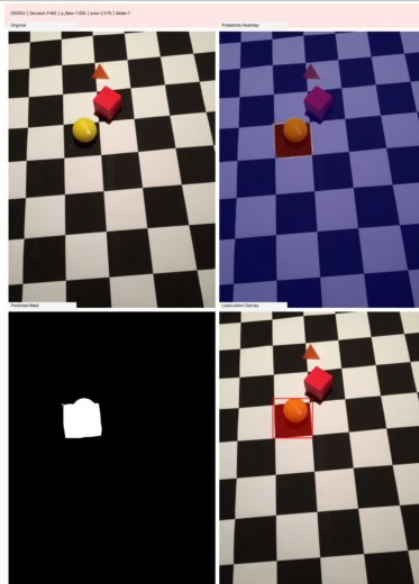
Original

Pred: Fake p_tamper: 1.00000
Area: 2.32% Regions: 1



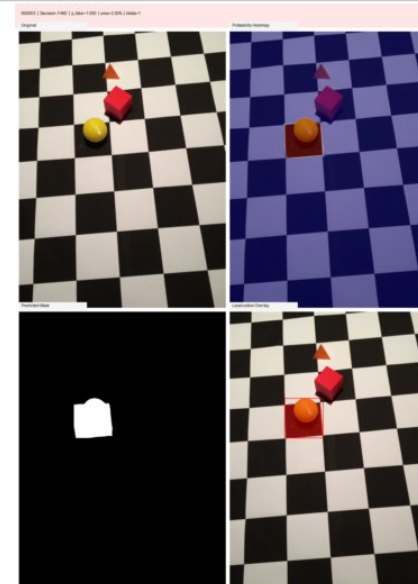
Facebook

Pred: Fake p_tamper: 0.99999
Area: 2.31% Regions: 1



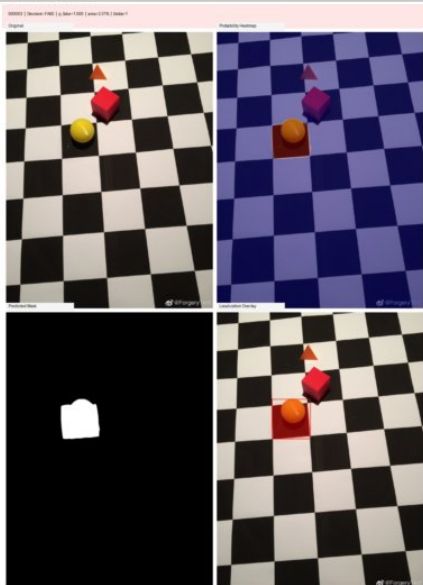
WeChat

Pred: Fake p_tamper: 0.99999
Area: 2.30% Regions: 1



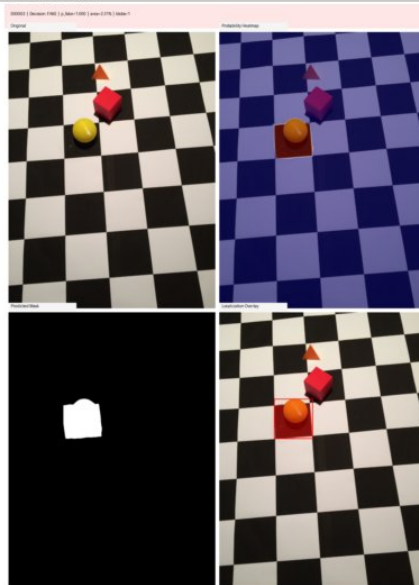
Weibo

Pred: Fake p_tamper: 1.00000
Area: 2.31% Regions: 1



WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 2.31% Regions: 1



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

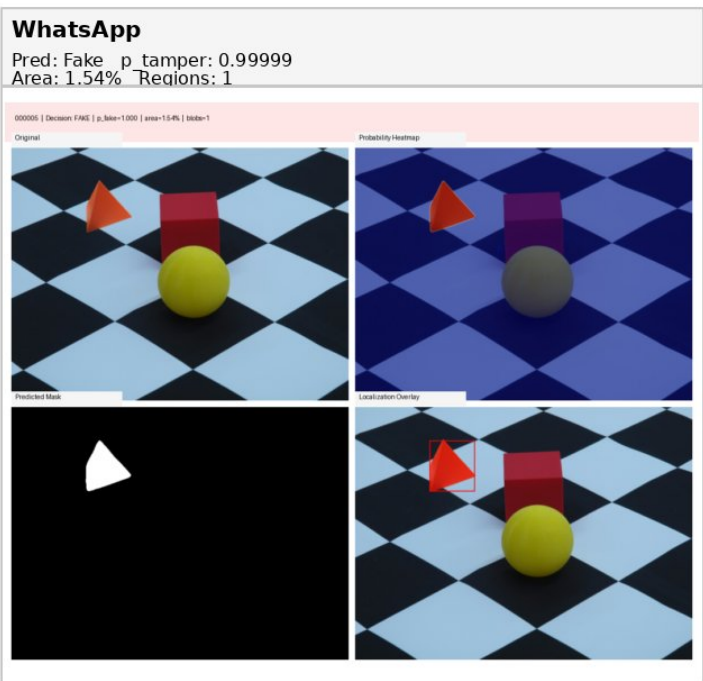
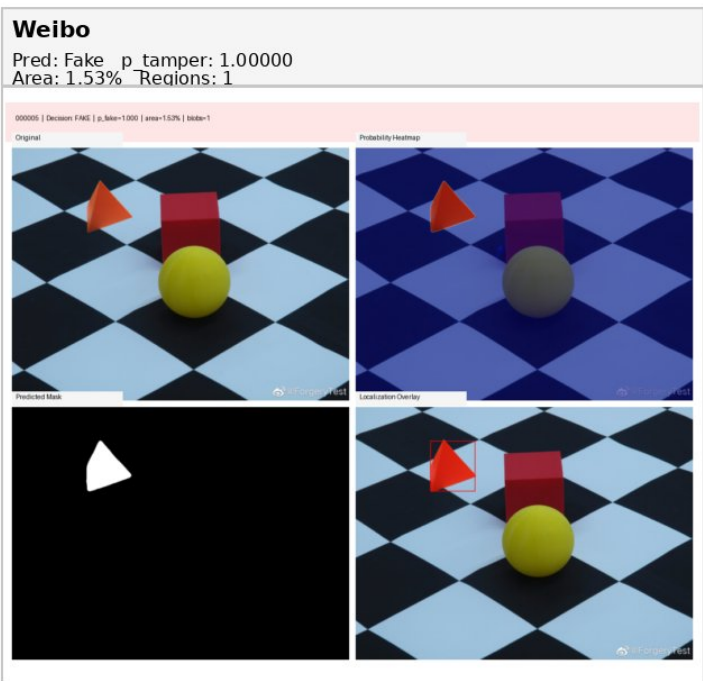
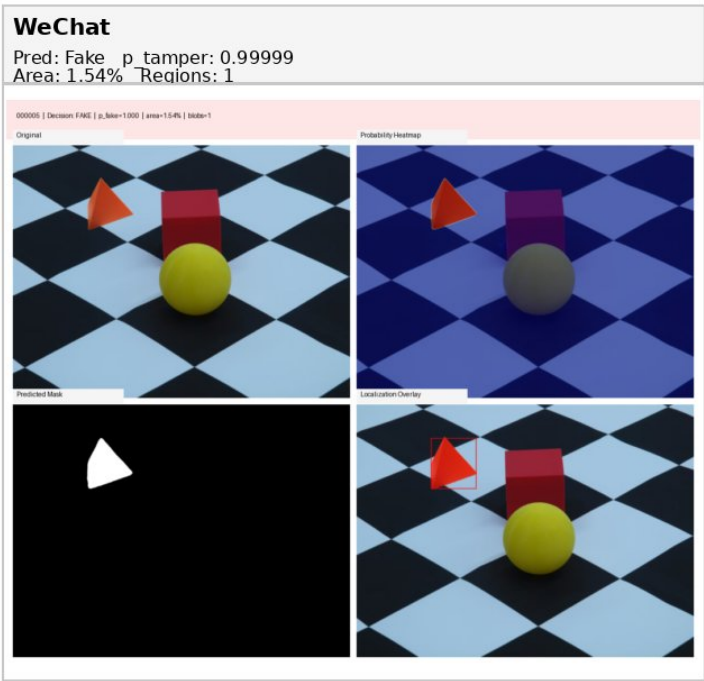
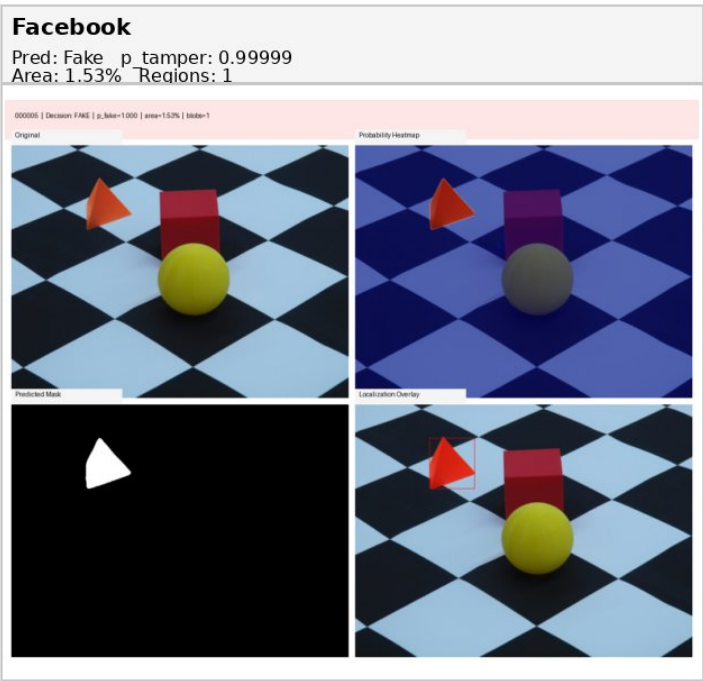
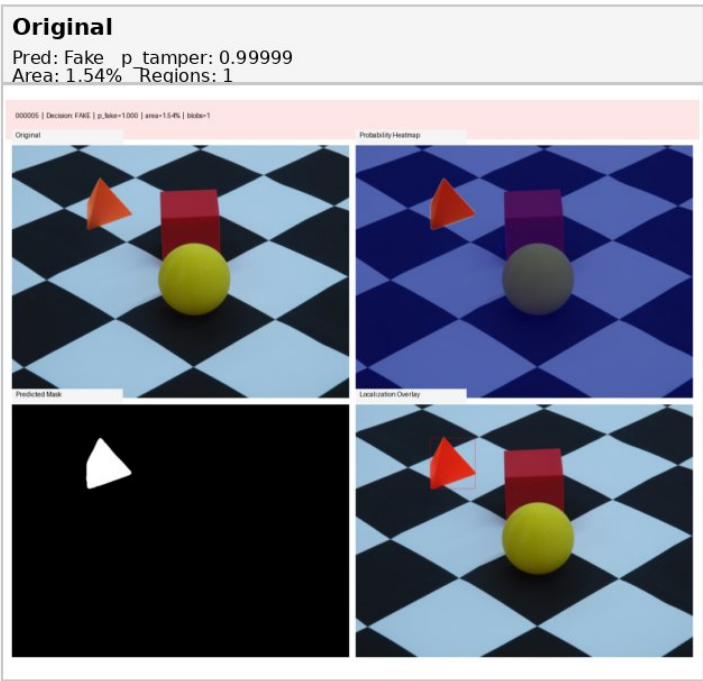
OSN Forensic Comparison - NIST16 - Sample 04/20

ID: 000004



OSN Forensic Comparison - NIST16 - Sample 05/20

ID: 000005



Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 06/20

ID: 000006

Original

Pred: Fake p_tamper: 0.99999
Area: 9.95% Regions: 2

000006 | Decision: FAKE | p_tamper: 1.000 | area: 9.95% | blobs: 2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 9.94% Regions: 1

000006 | Decision: FAKE | p_tamper: 1.000 | area: 9.94% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 9.97% Regions: 2

000006 | Decision: FAKE | p_tamper: 1.000 | area: 9.97% | blobs: 2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 1.00000
Area: 9.94% Regions: 1

000006 | Decision: FAKE | p_tamper: 1.000 | area: 9.94% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 9.94% Regions: 1

000006 | Decision: FAKE | p_tamper: 1.000 | area: 9.94% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

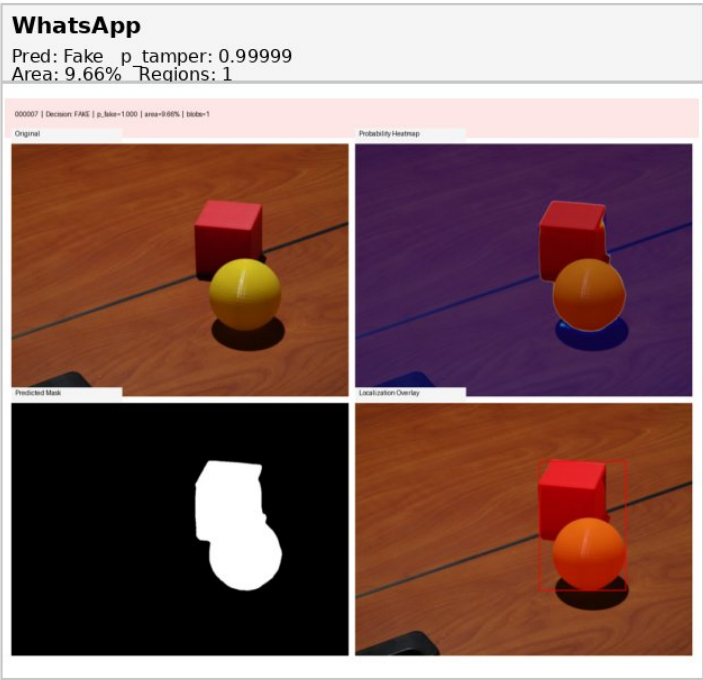
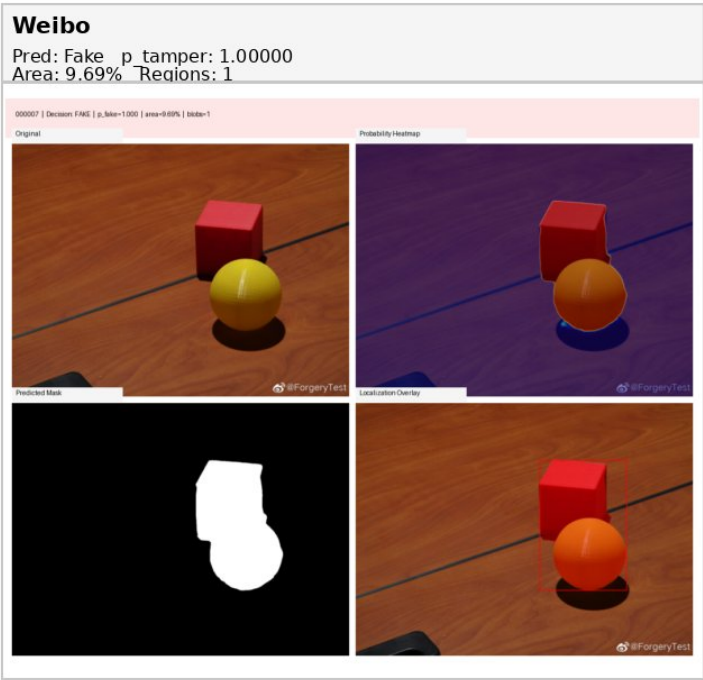
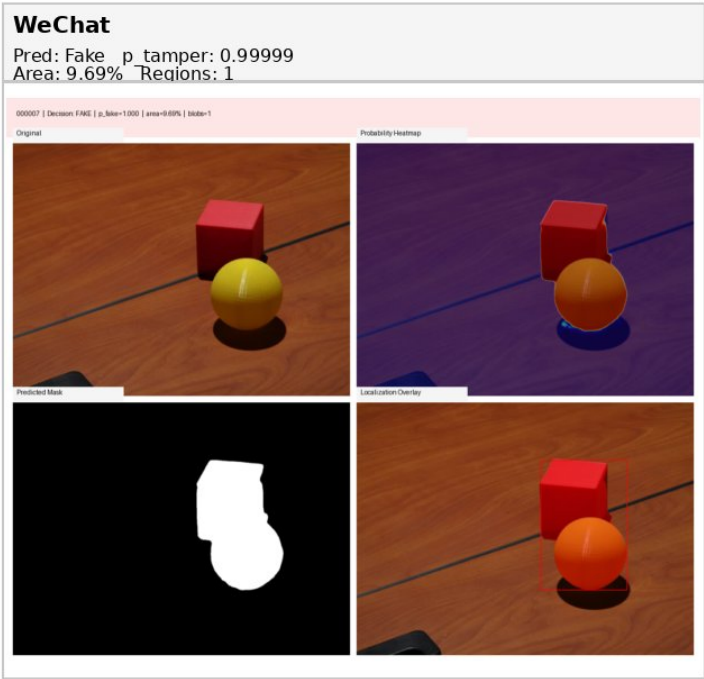
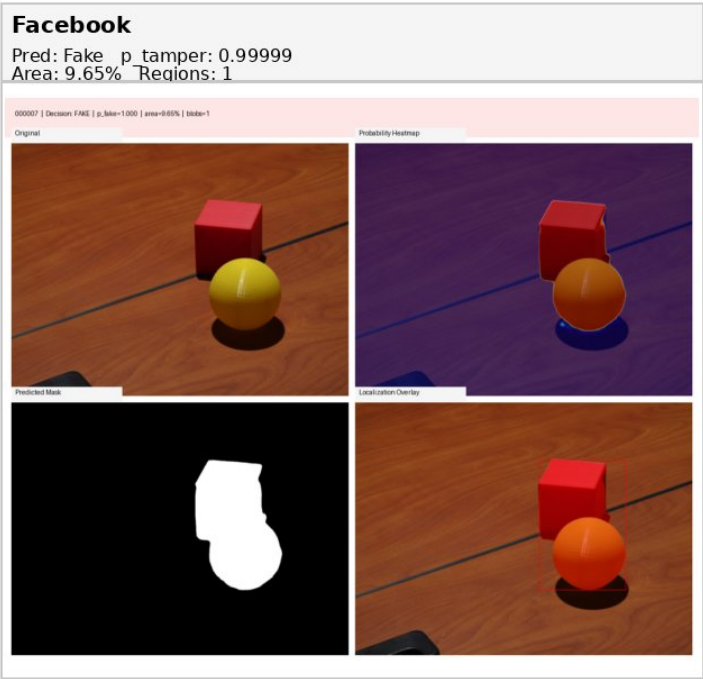
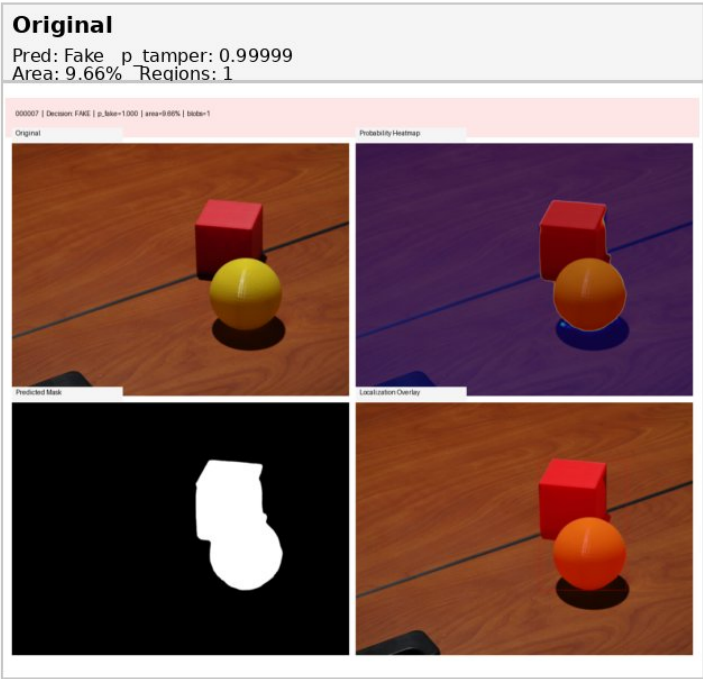
Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 07/20

ID: 000007



Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

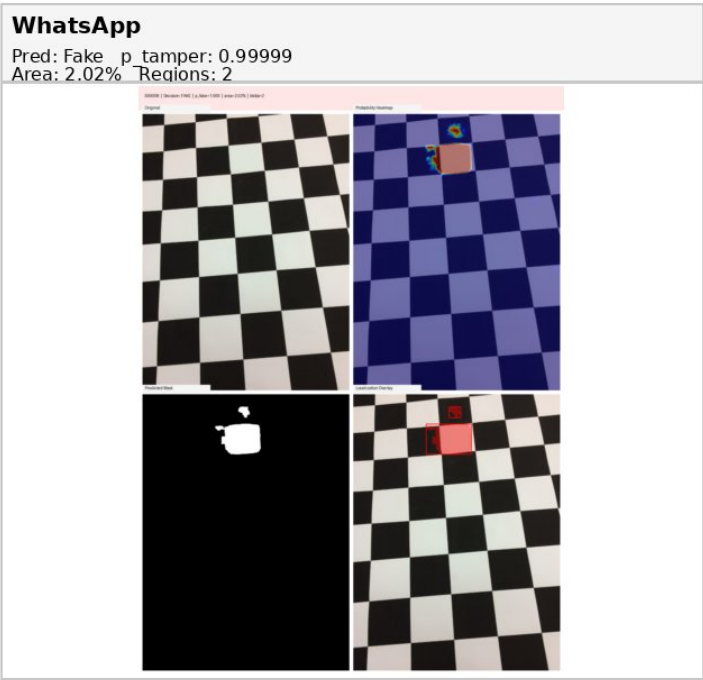
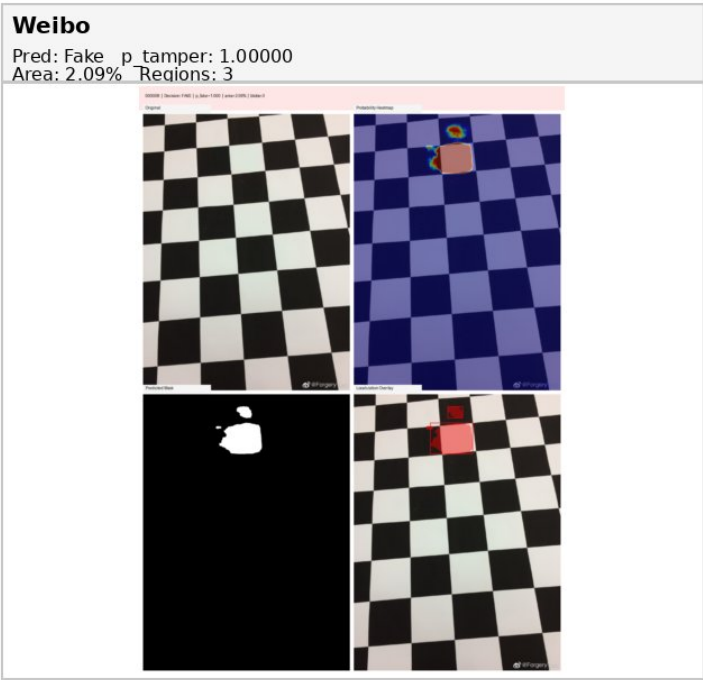
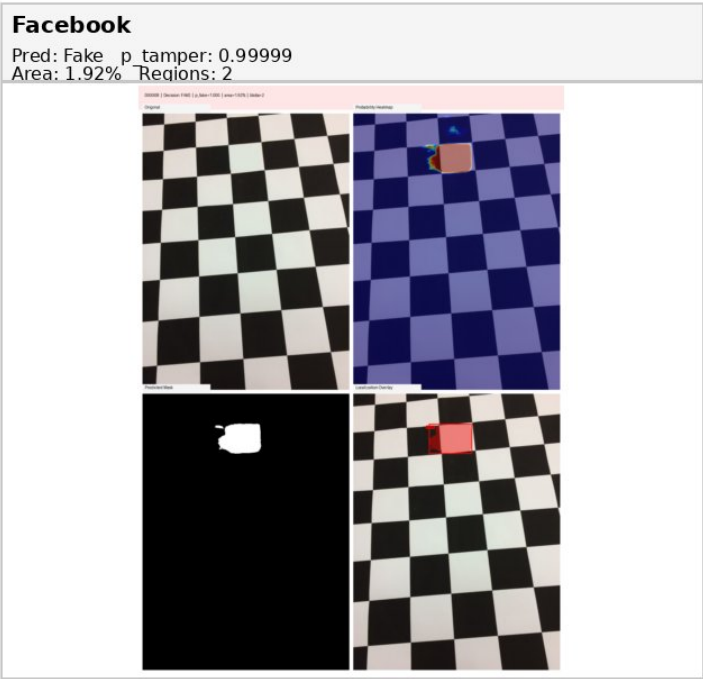
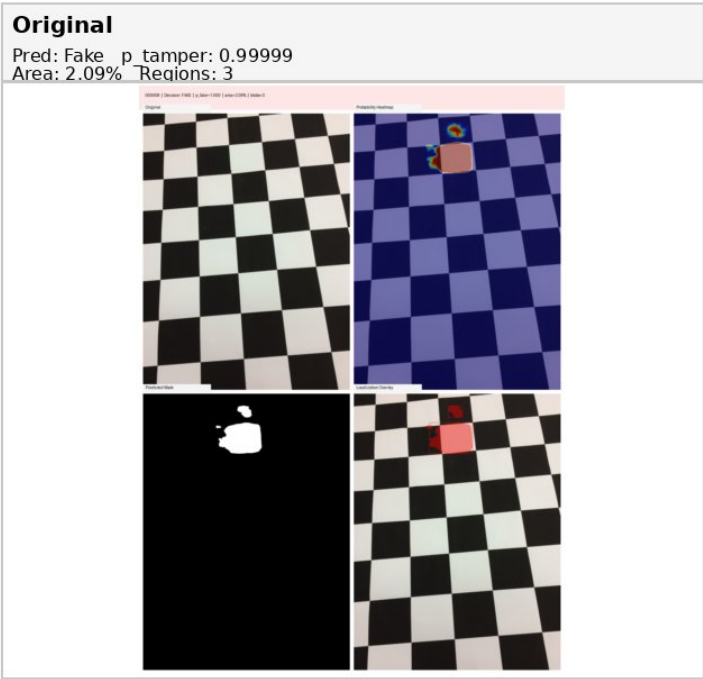
p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 08/20

ID: 000008



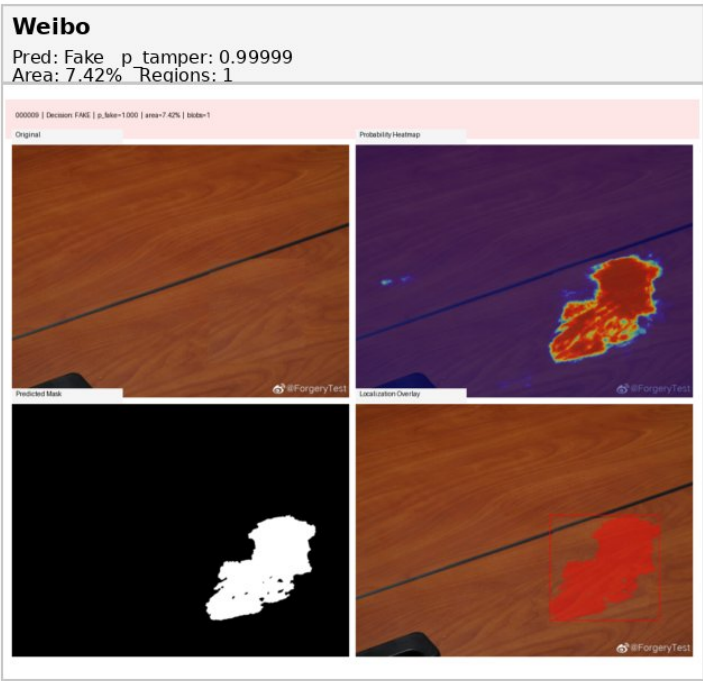
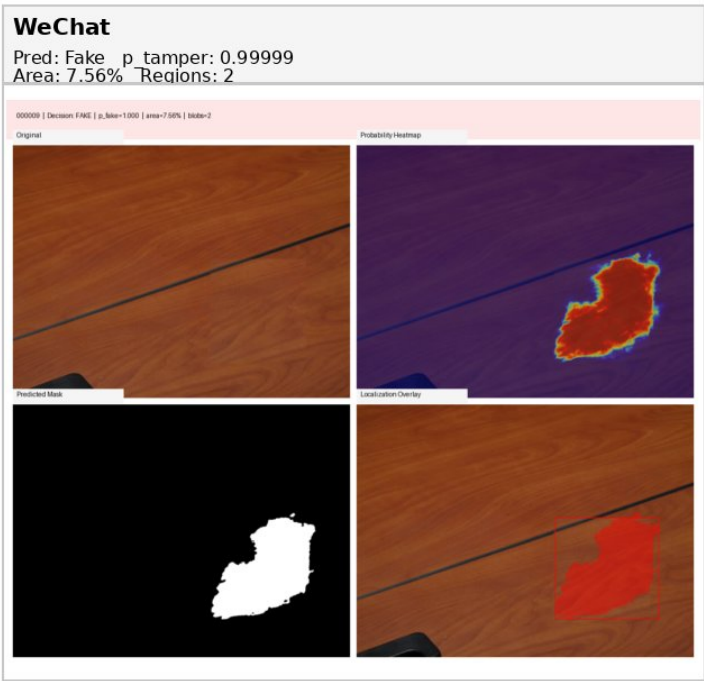
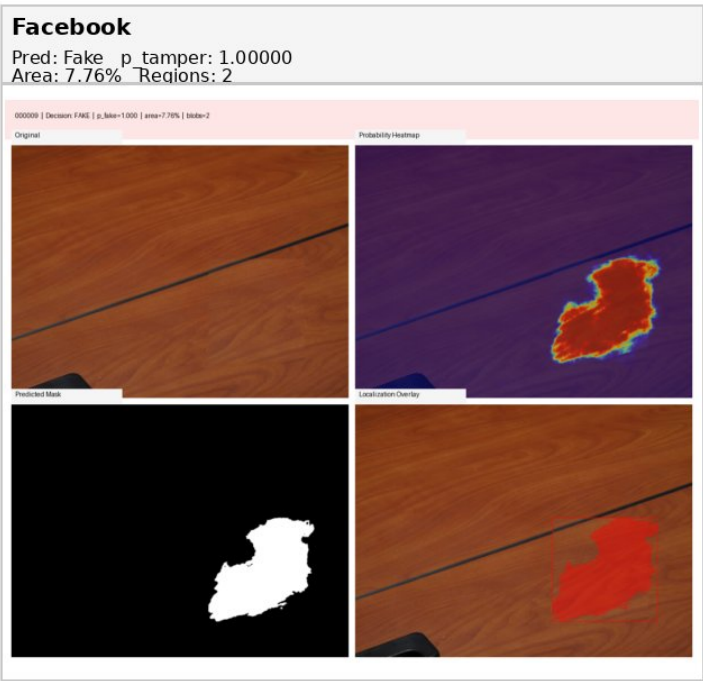
Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 09/20

ID: 000009



Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 10/20

ID: 000010

Original

Pred: Fake p_tamper: 0.99999
Area: 5.31% Regions: 3

000010 | Decision: FAKE | p_tamper: 1.000 | area: 5.31% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Location Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 5.54% Regions: 4

000010 | Decision: FAKE | p_tamper: 1.000 | area: 5.54% | blobs: 4

Original

Probability Heatmap

Predicted Mask

Location Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 5.25% Regions: 2

000010 | Decision: FAKE | p_tamper: 1.000 | area: 5.25% | blobs: 2

Original

Probability Heatmap

Predicted Mask

Location Overlay

Weibo

Pred: Fake p_tamper: 1.00000
Area: 4.74% Regions: 2

000010 | Decision: FAKE | p_tamper: 1.000 | area: 4.74% | blobs: 2

Original

Probability Heatmap

Predicted Mask

Location Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 5.35% Regions: 3

000010 | Decision: FAKE | p_tamper: 1.000 | area: 5.35% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Location Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 11/20

ID: 000011

Original

Pred: Fake p_tamper: 0.99999
Area: 2.34% Regions: 1

000011 | Decision: FAKE | p_fake=1.000 | area=2.34% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 2.34% Regions: 1

000011 | Decision: FAKE | p_fake=1.000 | area=2.34% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 1.00000
Area: 2.36% Regions: 1

000011 | Decision: FAKE | p_fake=1.000 | area=2.36% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 1.00000
Area: 2.34% Regions: 1

000011 | Decision: FAKE | p_fake=1.000 | area=2.34% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 2.35% Regions: 1

000011 | Decision: FAKE | p_fake=1.000 | area=2.35% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 12/20

ID: 000012

Original

Pred: Fake p_tamper: 1.00000
Area: 1.80% Regions: 3

000012 | Decision: FAKE | p_tamper: 1.000 | area: 1.80% | blobs: 3

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 1.77% Regions: 2

000012 | Decision: FAKE | p_tamper: 1.000 | area: 1.77% | blobs: 2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 1.83% Regions: 2

000012 | Decision: FAKE | p_tamper: 1.000 | area: 1.83% | blobs: 2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 1.77% Regions: 1

000012 | Decision: FAKE | p_tamper: 1.000 | area: 1.77% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 1.80% Regions: 2

000012 | Decision: FAKE | p_tamper: 1.000 | area: 1.80% | blobs: 2

Original

Probability Heatmap

Predicted Mask

Localization Overlay

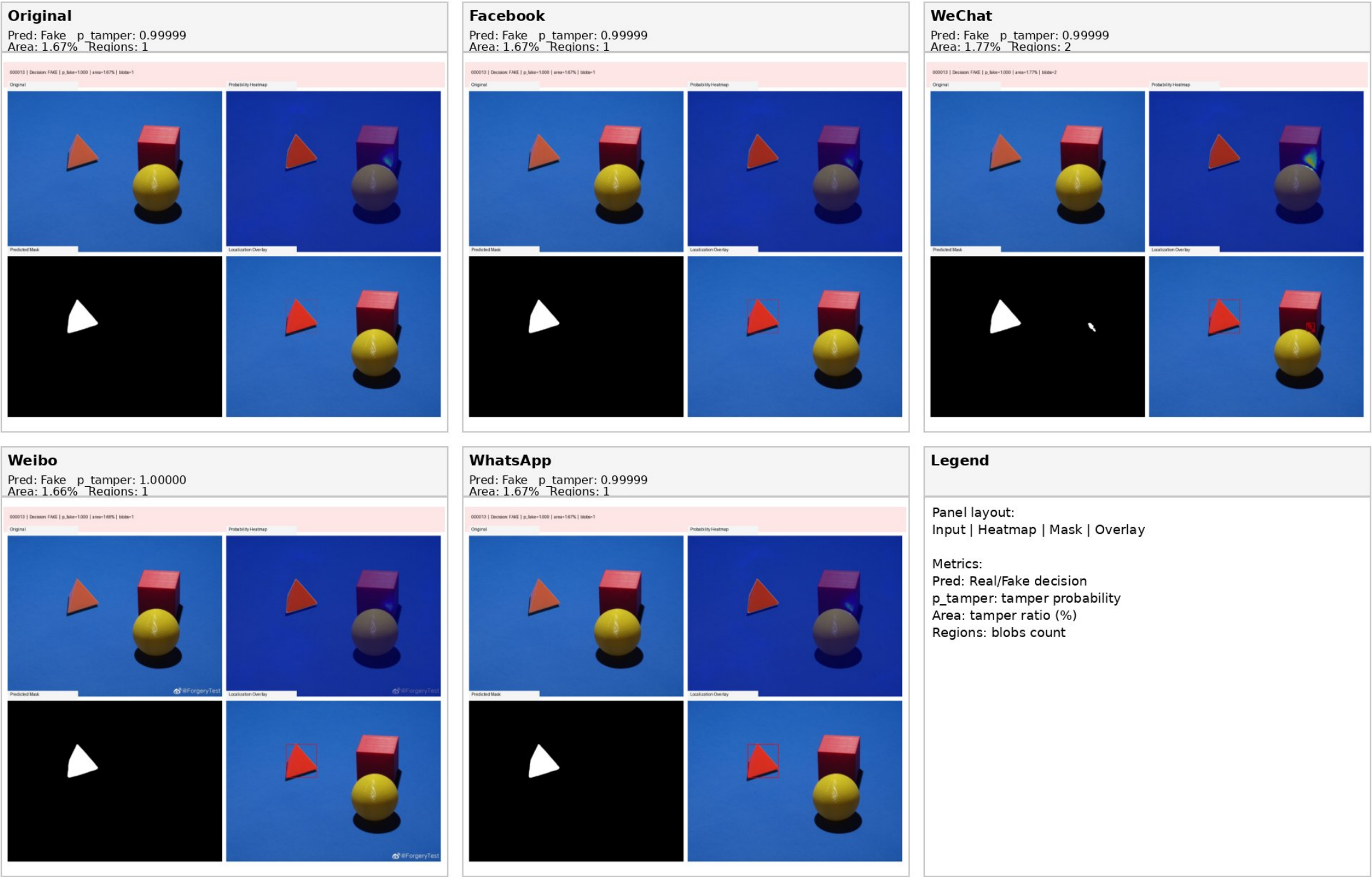
Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 13/20

ID: 000013



OSN Forensic Comparison - NIST16 - Sample 14/20

ID: 000014

Original

Pred: Fake p_tamper: 0.99999
Area: 3.81% Regions: 1

000014 | Decision: FAKE | p_fake=1.000 | area=3.81% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 3.80% Regions: 1

000014 | Decision: FAKE | p_fake=1.000 | area=3.80% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 3.81% Regions: 1

000014 | Decision: FAKE | p_fake=1.000 | area=3.81% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 1.00000
Area: 3.80% Regions: 1

000014 | Decision: FAKE | p_fake=1.000 | area=3.80% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 3.79% Regions: 1

000014 | Decision: FAKE | p_fake=1.000 | area=3.79% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

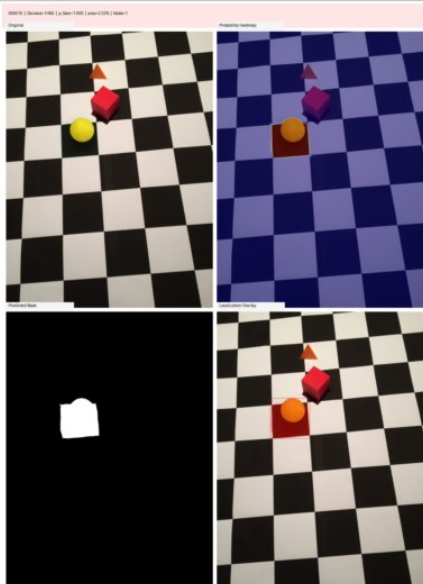
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 15/20

ID: 000015

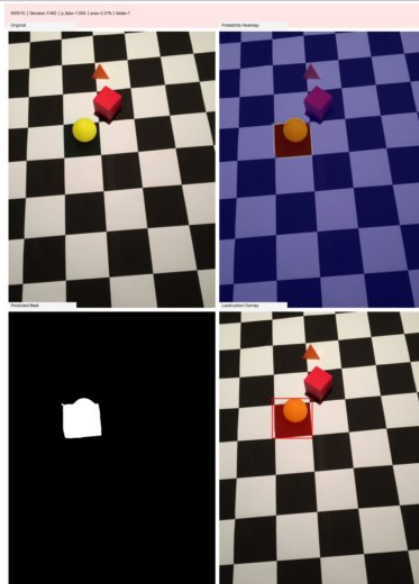
Original

Pred: Fake p_tamper: 1.00000
Area: 2.32% Regions: 1



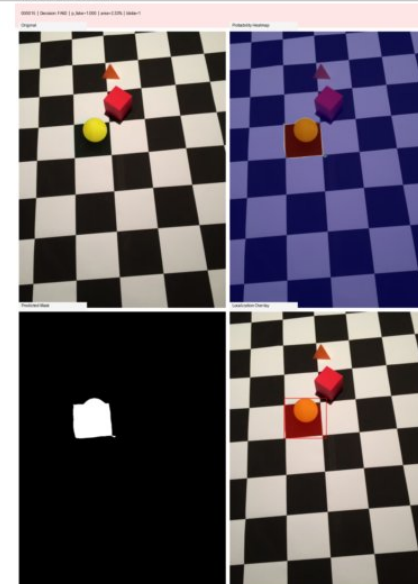
Facebook

Pred: Fake p_tamper: 0.99999
Area: 2.31% Regions: 1



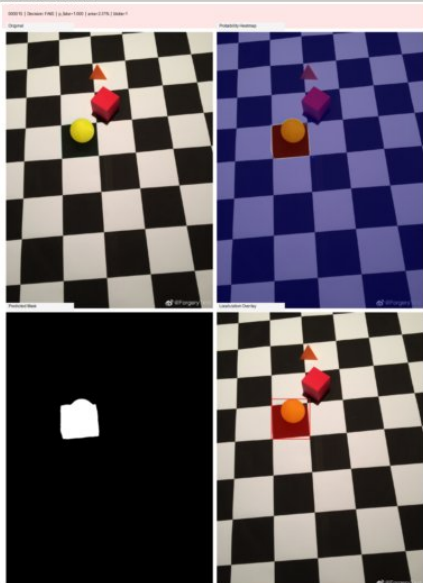
WeChat

Pred: Fake p_tamper: 1.00000
Area: 2.33% Regions: 1



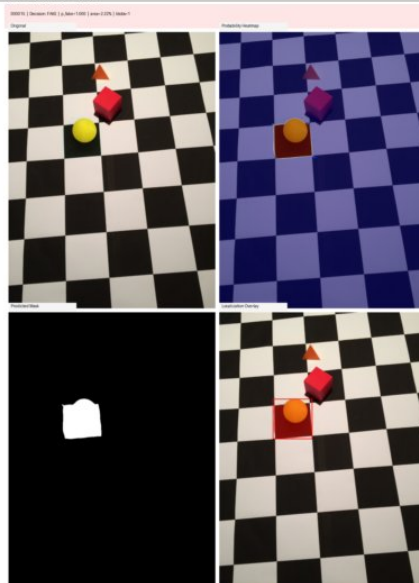
Weibo

Pred: Fake p_tamper: 1.00000
Area: 2.31% Regions: 1



WhatsApp

Pred: Fake p_tamper: 1.00000
Area: 2.32% Regions: 1



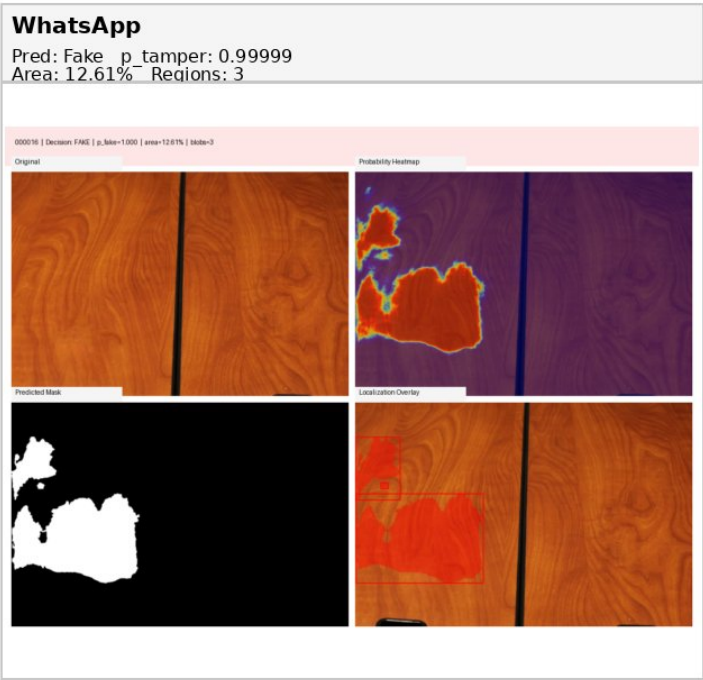
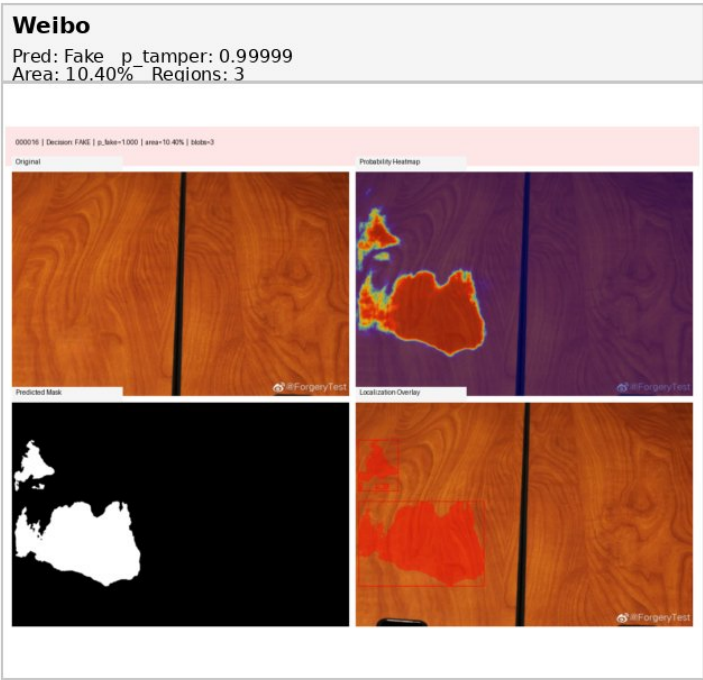
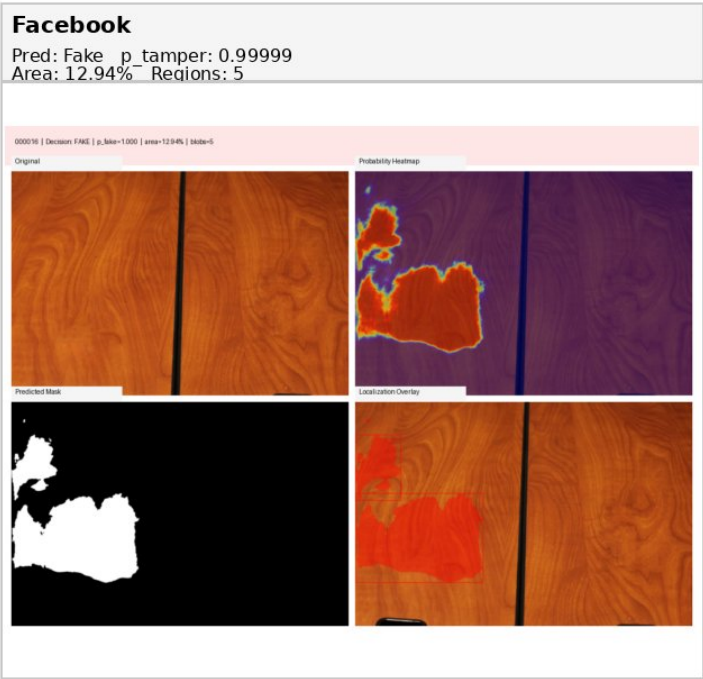
Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 16/20

ID: 000016



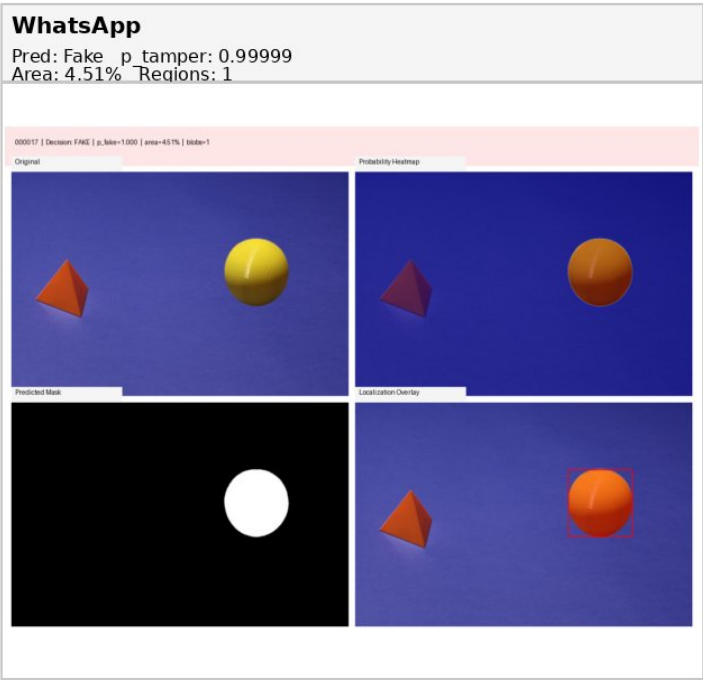
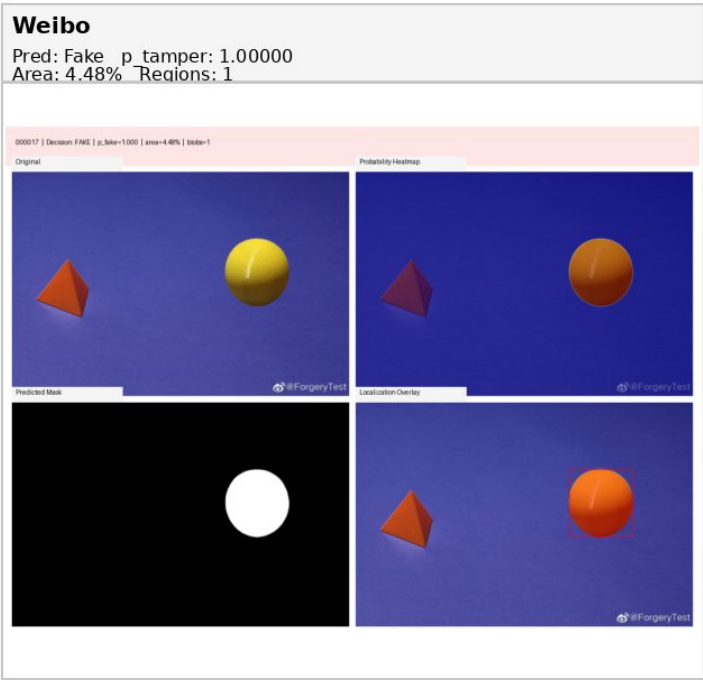
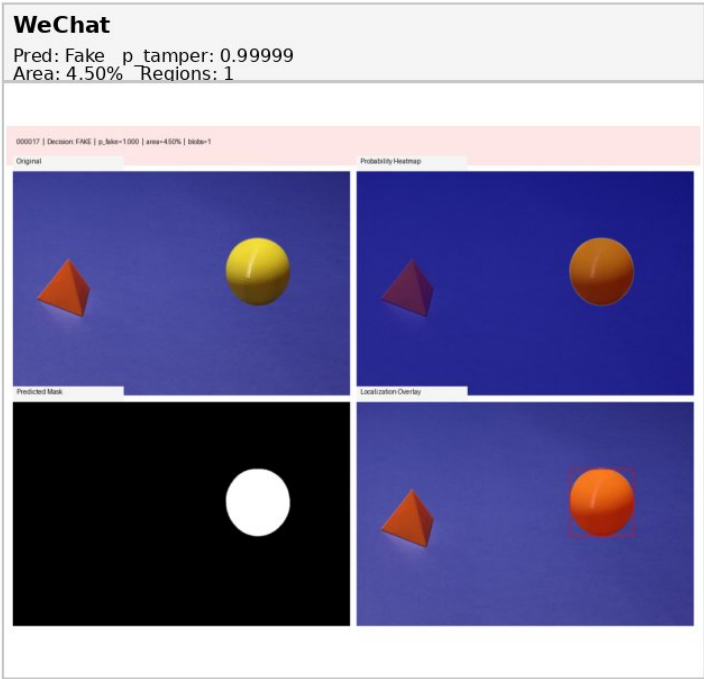
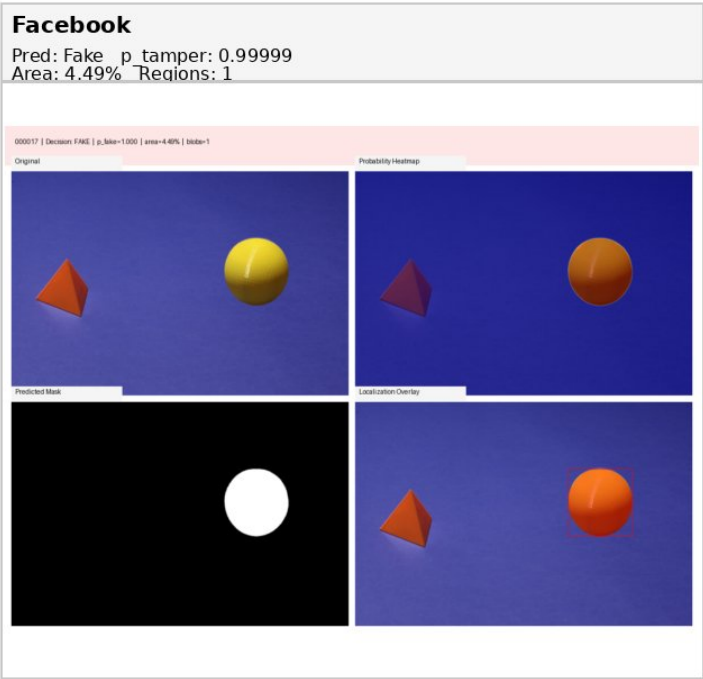
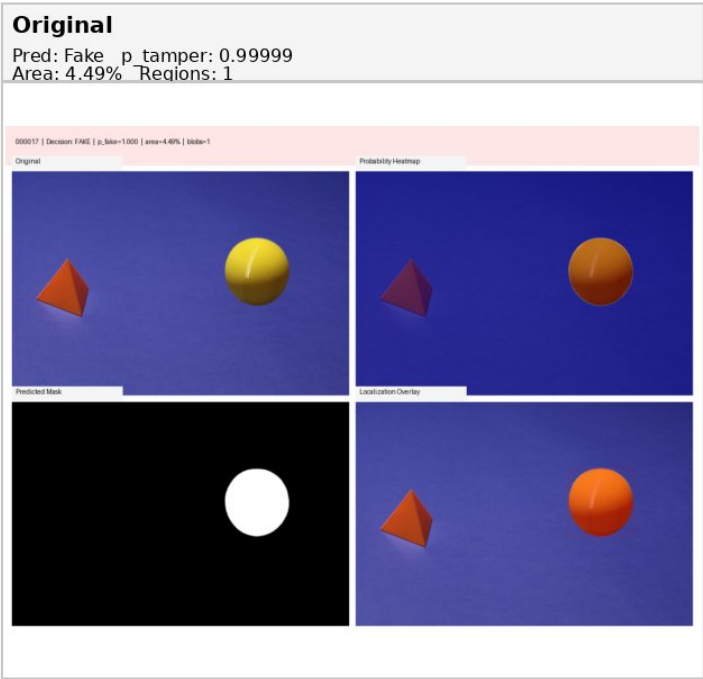
Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 17/20

ID: 000017



Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 18/20

ID: 000018

Original

Pred: Fake p_tamper: 0.99999
Area: 2.34% Regions: 1

000018 | Decision: FAKE | p_fake=1.000 | area=2.34% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 2.35% Regions: 1

000018 | Decision: FAKE | p_fake=1.000 | area=2.35% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 2.36% Regions: 1

000018 | Decision: FAKE | p_fake=1.000 | area=2.36% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 0.99999
Area: 2.34% Regions: 1

000018 | Decision: FAKE | p_fake=1.000 | area=2.34% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 2.35% Regions: 1

000018 | Decision: FAKE | p_fake=1.000 | area=2.35% | blobs=1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:
Input | Heatmap | Mask | Overlay

Metrics:
Pred: Real/Fake decision
p_tamper: tamper probability
Area: tamper ratio (%)
Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 19/20

ID: 000019

Original

Pred: Fake p_tamper: 0.99999
Area: 1.46% Regions: 1

000019 | Decision: FAKE | p_tamper: 1.000 | area: 1.46% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Facebook

Pred: Fake p_tamper: 0.99999
Area: 1.46% Regions: 1

000019 | Decision: FAKE | p_tamper: 1.000 | area: 1.46% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WeChat

Pred: Fake p_tamper: 0.99999
Area: 1.46% Regions: 1

000019 | Decision: FAKE | p_tamper: 1.000 | area: 1.46% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Weibo

Pred: Fake p_tamper: 1.00000
Area: 1.45% Regions: 1

000019 | Decision: FAKE | p_tamper: 1.000 | area: 1.45% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

WhatsApp

Pred: Fake p_tamper: 0.99999
Area: 1.46% Regions: 1

000019 | Decision: FAKE | p_tamper: 1.000 | area: 1.46% | blobs: 1

Original

Probability Heatmap

Predicted Mask

Localization Overlay

Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

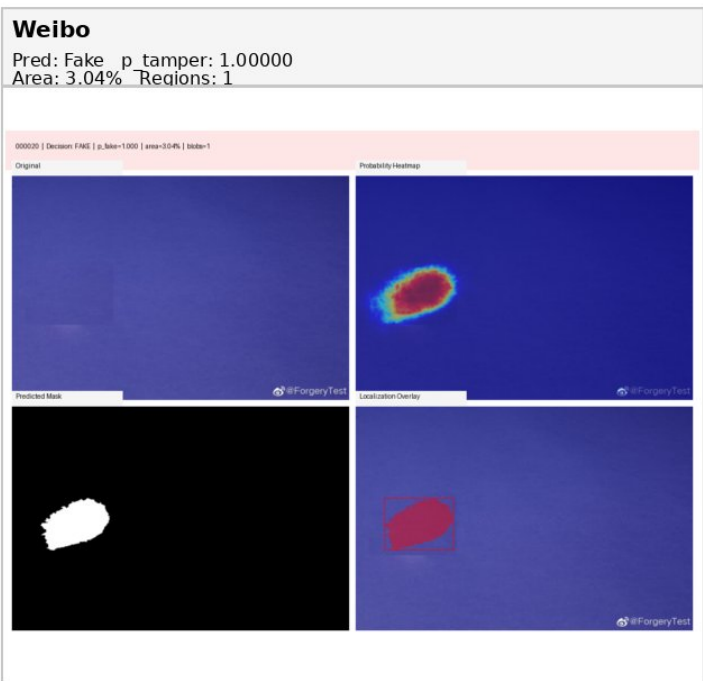
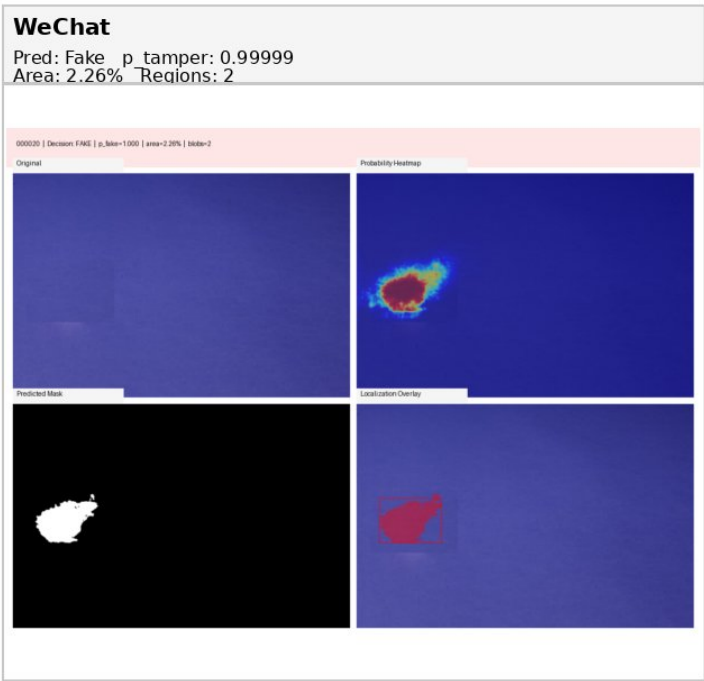
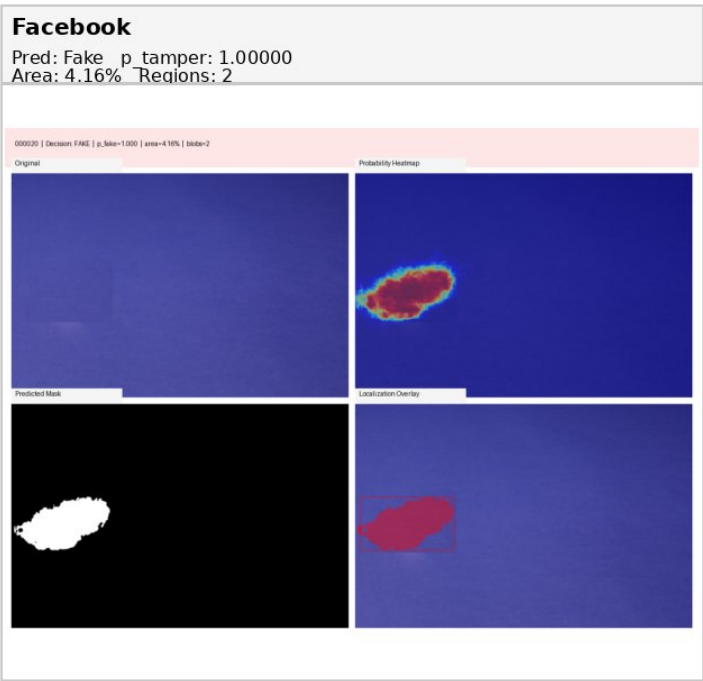
p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count

OSN Forensic Comparison - NIST16 - Sample 20/20

ID: 000020



Legend

Panel layout:

Input | Heatmap | Mask | Overlay

Metrics:

Pred: Real/Fake decision

p_tamper: tamper probability

Area: tamper ratio (%)

Regions: blobs count