



Politecnico di Milano  
AA 2018 - 2019

Computer Science and Engineering

IMAGE ANALYSIS AND COMPUTER VISION PROJECT

# BACKGROUND SUBTRACTION

Results report:

Webcam: A14 - km. 9,0 Bivio A14-Raccordo Casalecchio itinere Sud

Threshold = 40

Ratio = 0.85

Andrea Mazzeo - 895579  
Daniele Moltisanti - 898977

## BACKGROUND DETECTION NUMBER 0 WITH THRESHOLD OF 10

Background detected with accuracy of 81.34%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 1 WITH THRESHOLD OF 10

Background detected with accuracy of 80.72%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 2 WITH THRESHOLD OF 10

Background detected with accuracy of 78.99%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 3 WITH THRESHOLD OF 10

Background detected with accuracy of 79.25%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 4 WITH THRESHOLD OF 10

Background detected with accuracy of 74.28%

Original frame:



Background detected:



Error plotted with threshold of 12:





## BACKGROUND DETECTION NUMBER 5 WITH THRESHOLD OF 10

Background detected with accuracy of 78.6%

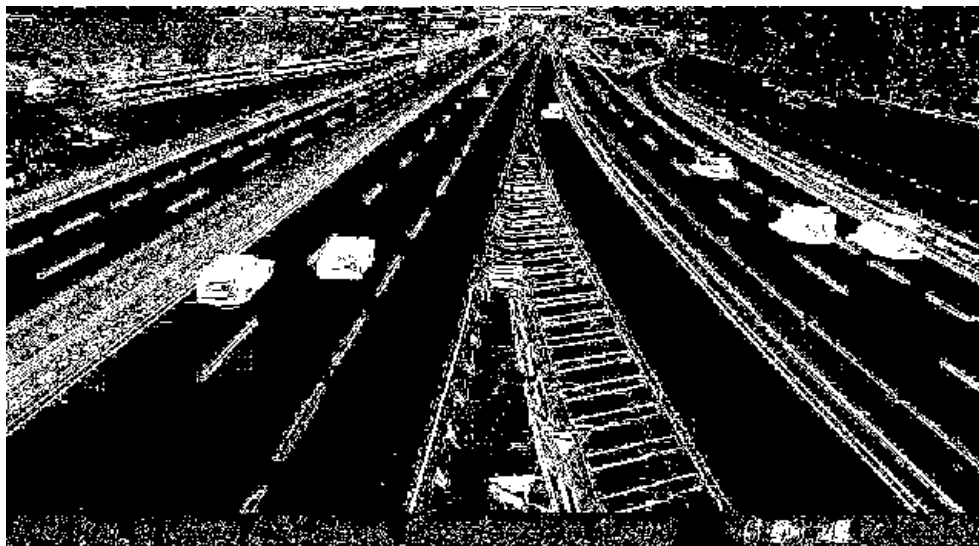
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 6 WITH THRESHOLD OF 10

Background detected with accuracy of 84.28%

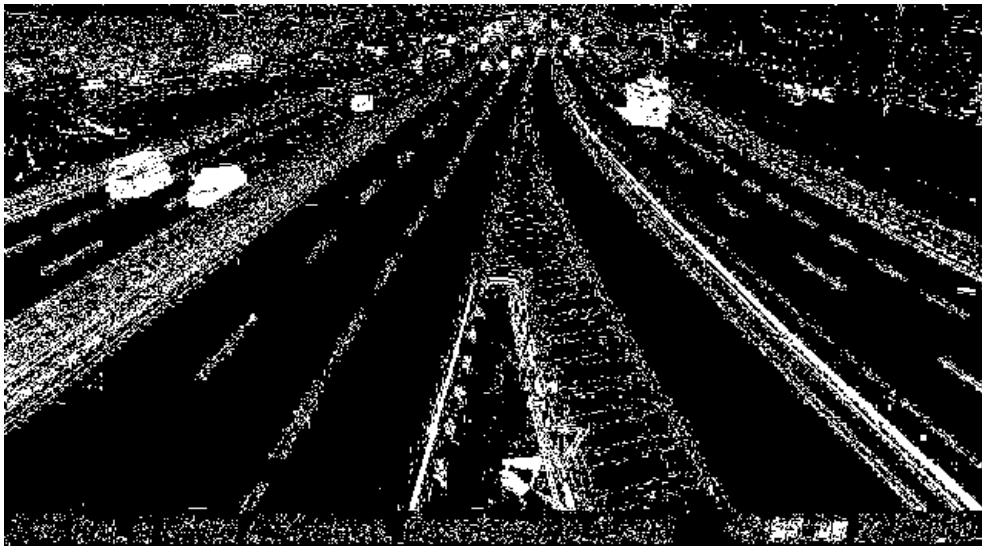
Original frame:



Background detected:



Error plotted with threshold of 12:





## BACKGROUND DETECTION NUMBER 7 WITH THRESHOLD OF 10

Background detected with accuracy of 72.93%

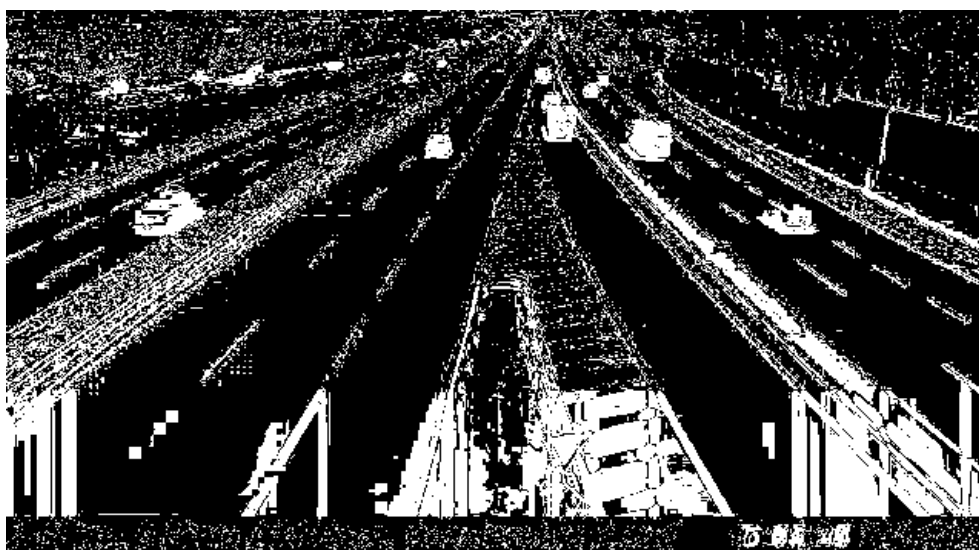
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 8 WITH THRESHOLD OF 10

Background detected with accuracy of 69.64%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 9 WITH THRESHOLD OF 10

Background detected with accuracy of 72.64%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 10 WITH THRESHOLD OF 10

Background detected with accuracy of 77.93%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 11 WITH THRESHOLD OF 10

Background detected with accuracy of 87.83%

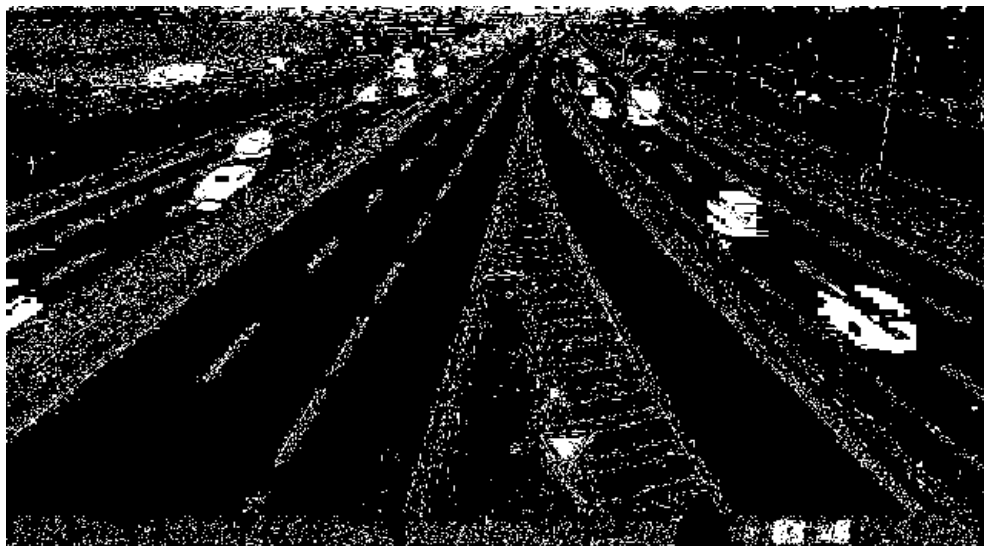
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 12 WITH THRESHOLD OF 10

Background detected with accuracy of 10.36%

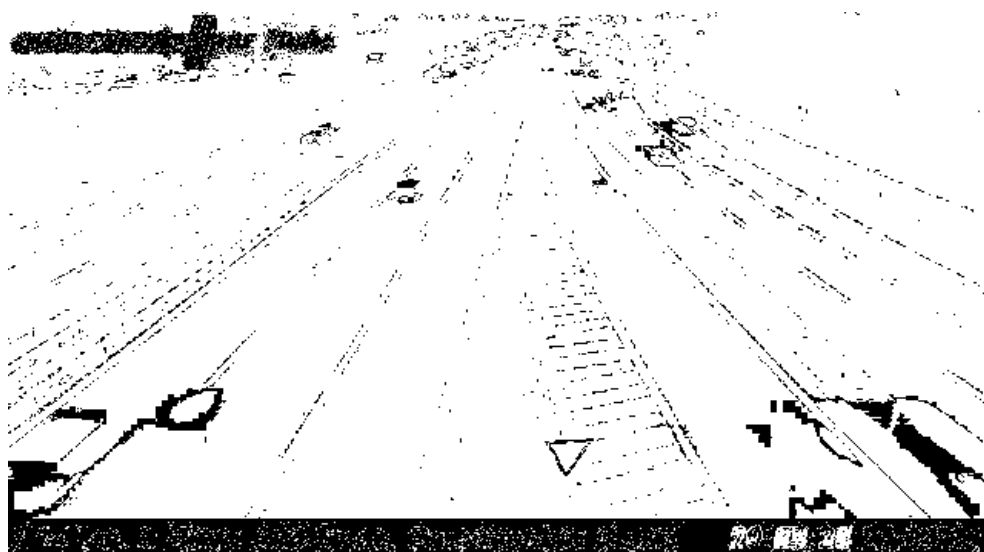
Original frame:



Background detected:



Error plotted with threshold of 12:





## BACKGROUND DETECTION NUMBER 13 WITH THRESHOLD OF 10

Background detected with accuracy of 50.81%

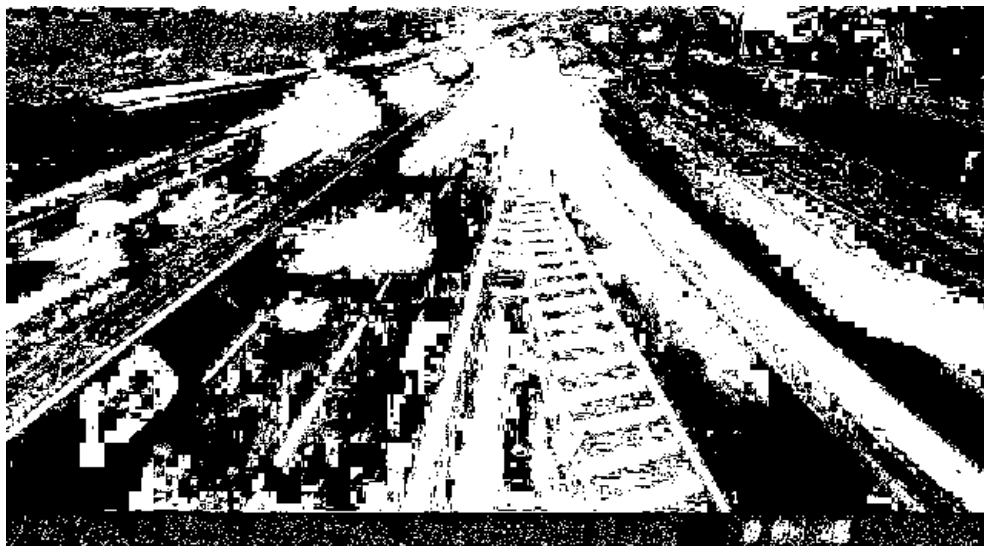
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 14 WITH THRESHOLD OF 10

Background detected with accuracy of 79.79%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 15 WITH THRESHOLD OF 10

Background detected with accuracy of 75.7%

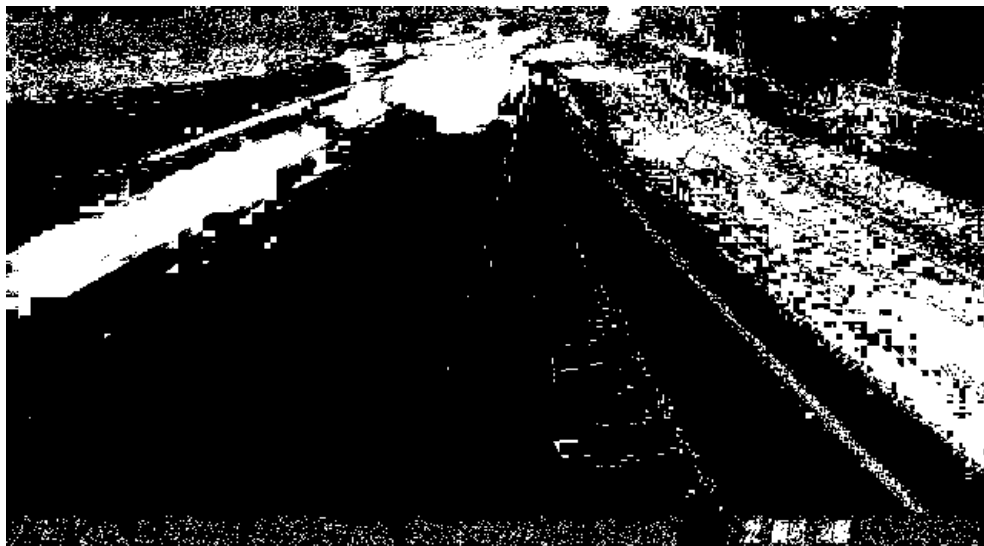
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 16 WITH THRESHOLD OF 10

Background detected with accuracy of 89.04%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 17 WITH THRESHOLD OF 10

Background detected with accuracy of 88.42%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 18 WITH THRESHOLD OF 10

Background detected with accuracy of 91.32%

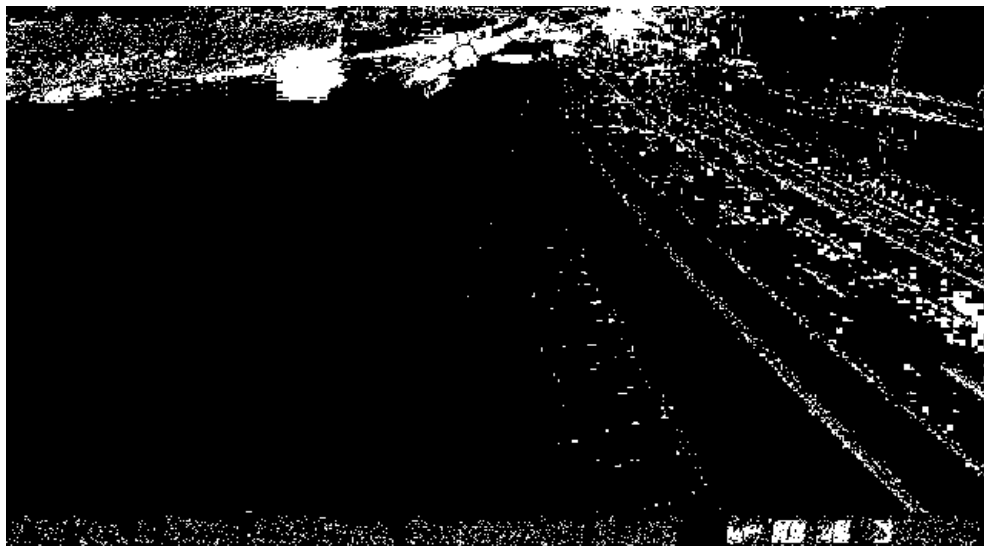
Original frame:



Background detected:



Error plotted with threshold of 12:





## BACKGROUND DETECTION NUMBER 19 WITH THRESHOLD OF 10

Background detected with accuracy of 90.42%

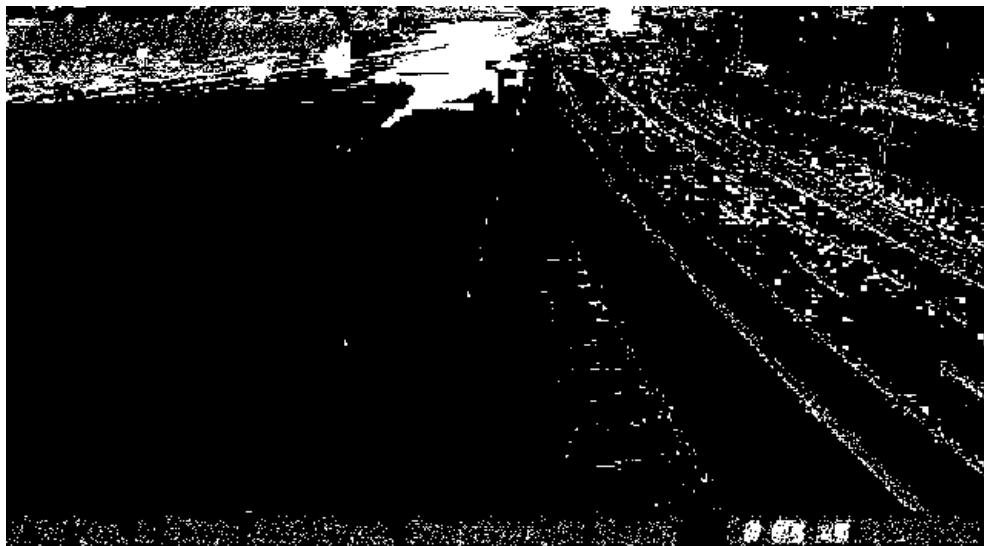
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 20 WITH THRESHOLD OF 10

Background detected with accuracy of 92.04%

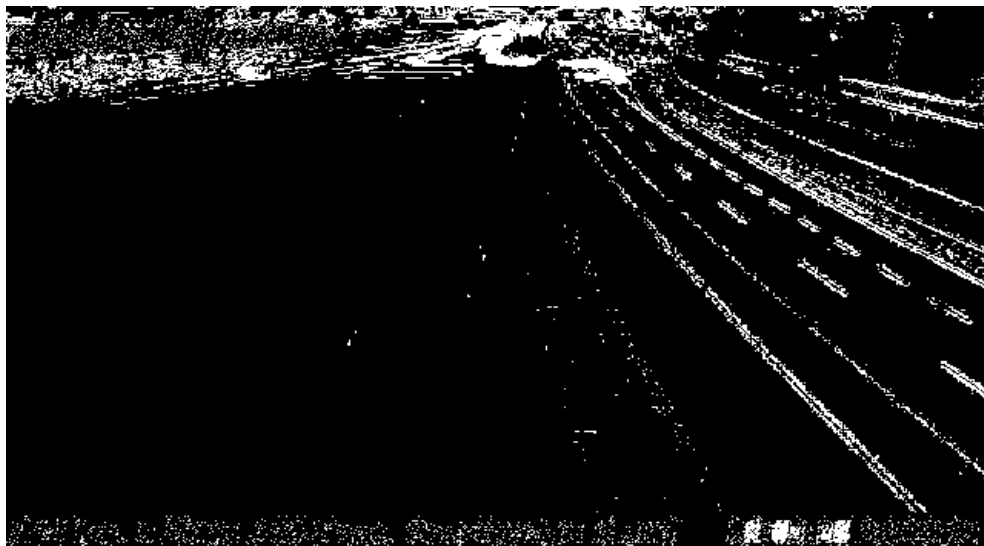
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 21 WITH THRESHOLD OF 10

Background detected with accuracy of 94.32%

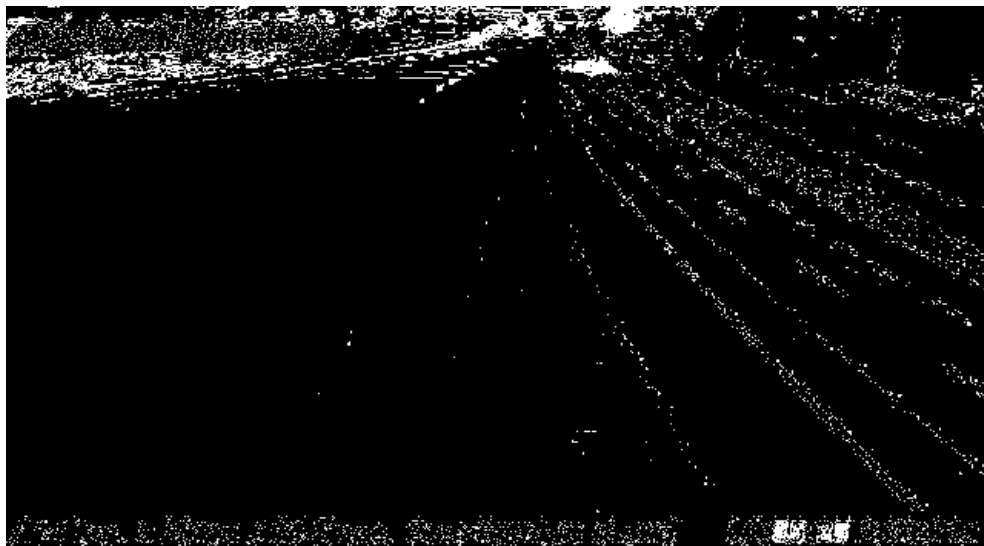
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 22 WITH THRESHOLD OF 10

Background detected with accuracy of 71.54%

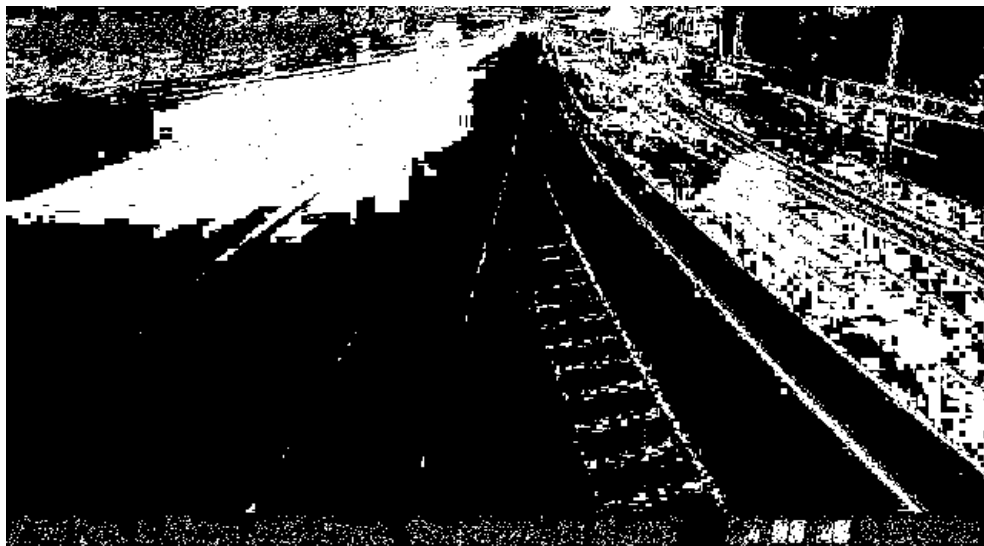
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 23 WITH THRESHOLD OF 10

Background detected with accuracy of 91.63%

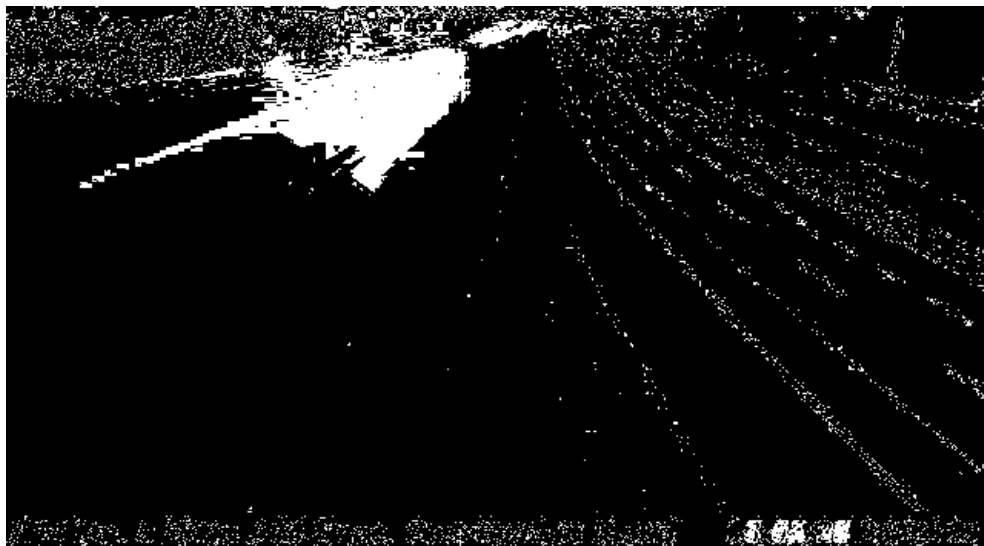
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 24 WITH THRESHOLD OF 10

Background detected with accuracy of 92.63%

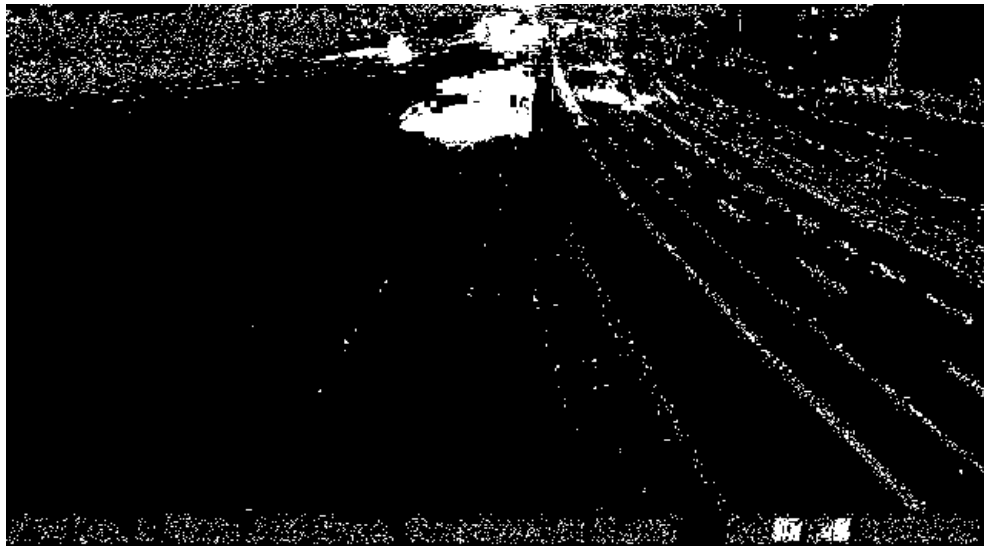
Original frame:



Background detected:



Error plotted with threshold of 12:





## BACKGROUND DETECTION NUMBER 25 WITH THRESHOLD OF 10

Background detected with accuracy of 86.91%

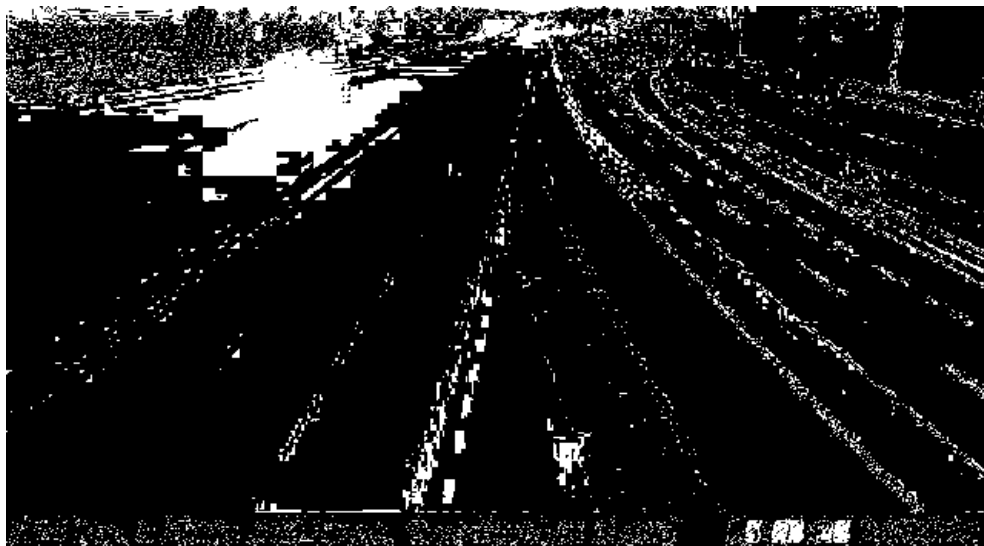
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 26 WITH THRESHOLD OF 10

Background detected with accuracy of 18.95%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 27 WITH THRESHOLD OF 10

Background detected with accuracy of 76.92%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 28 WITH THRESHOLD OF 10

Background detected with accuracy of 65.4%

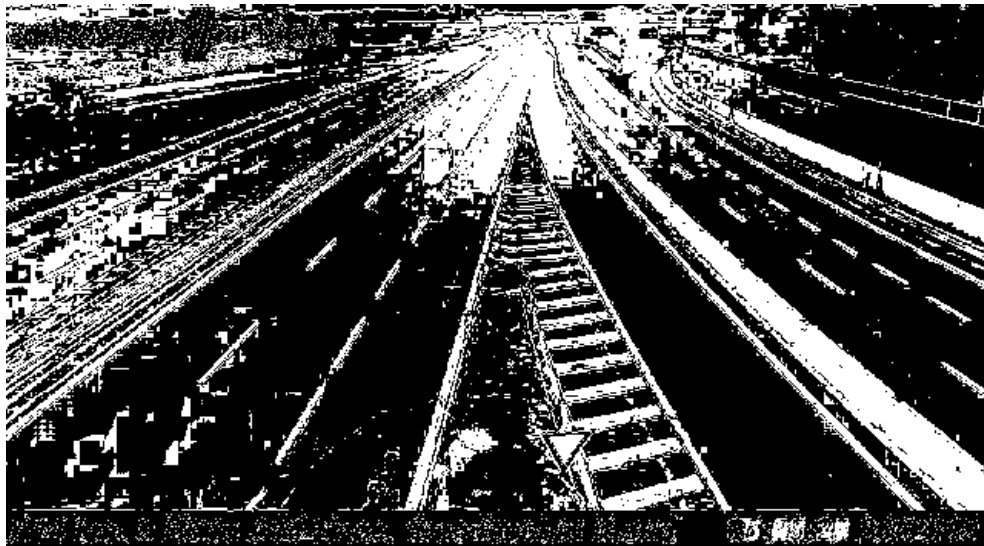
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 29 WITH THRESHOLD OF 10

Background detected with accuracy of 59.79%

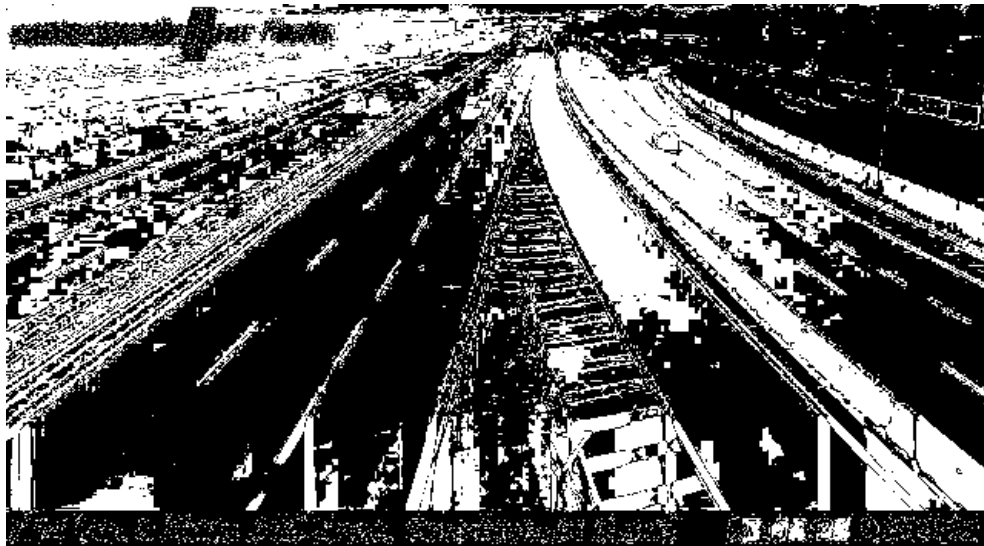
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 30 WITH THRESHOLD OF 10

Background detected with accuracy of 88.41%

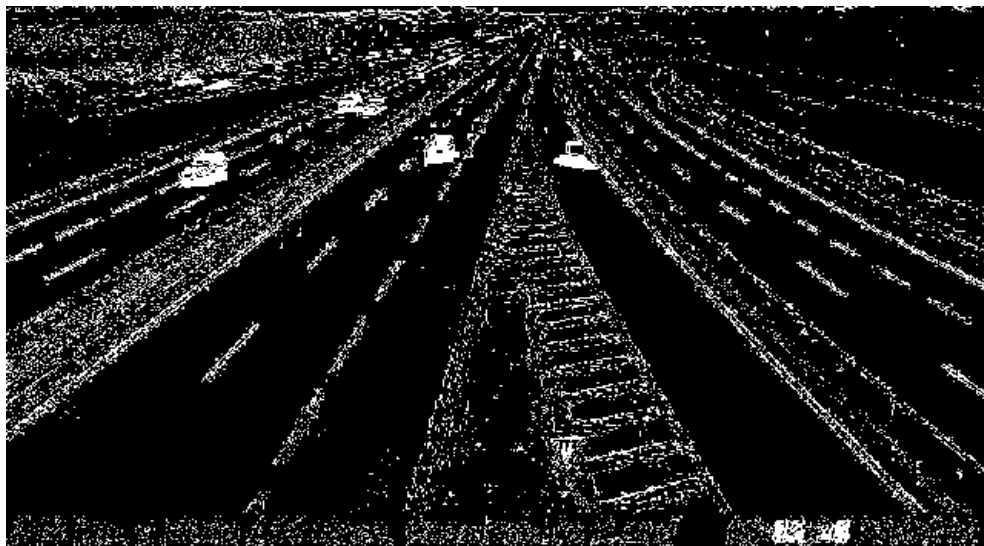
Original frame:



Background detected:



Error plotted with threshold of 12:





## BACKGROUND DETECTION NUMBER 31 WITH THRESHOLD OF 10

Background detected with accuracy of 75.16%

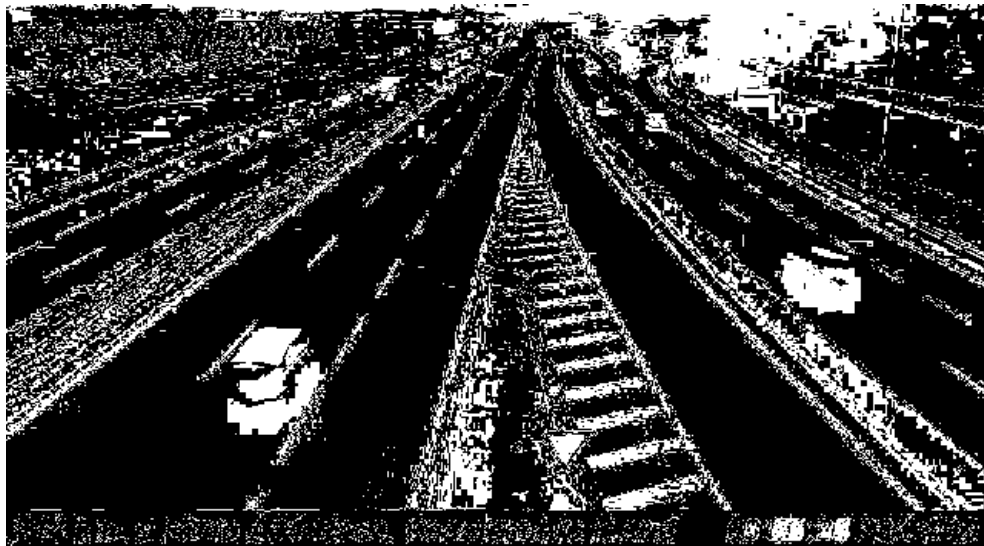
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 32 WITH THRESHOLD OF 10

Background detected with accuracy of 81.28%

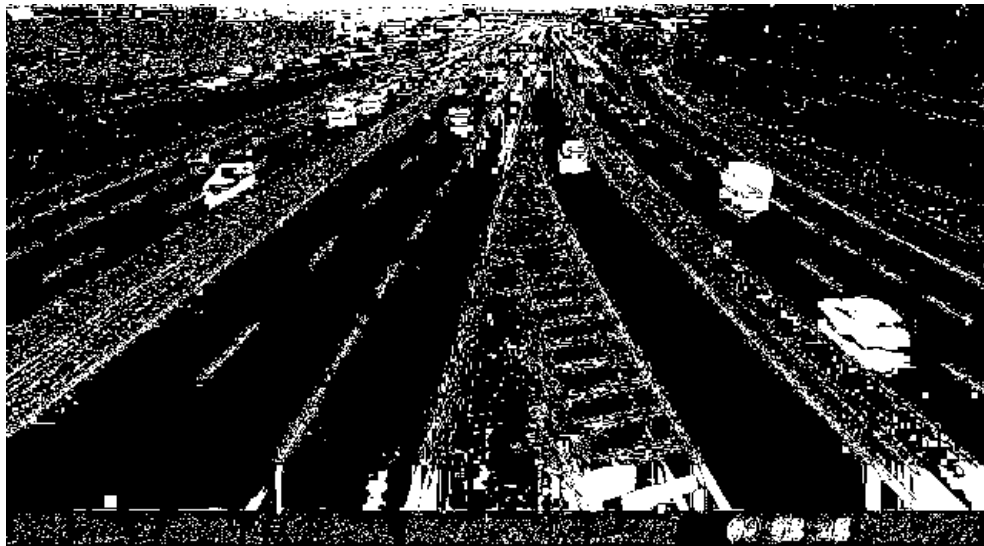
Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 33 WITH THRESHOLD OF 10

Background detected with accuracy of 76.98%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 34 WITH THRESHOLD OF 10

Background detected with accuracy of 83.93%

Original frame:



Background detected:



Error plotted with threshold of 12:



## BACKGROUND DETECTION NUMBER 35 WITH THRESHOLD OF 10

Background detected with accuracy of 67.52%

Original frame:



Background detected:



Error plotted with threshold of 12:

