Politecnico di Milano
AA 2018 - 2019

Computer Science and Engineering

IMAGE ANALYSIS AND COMPUTER VISION PROJECT

BACKGROUND SUBTRACTION

Results report:

Webcam: A04 - km. 215,3 Brescia Ovest itinere Ovest

Threshold = 40

Ratio = 0.85

Andrea Mazzeo - 895579
Daniele Moltisanti - 898977

BACKGROUND DETECTION NUMBER 0 WITH THRESHOLD OF 10

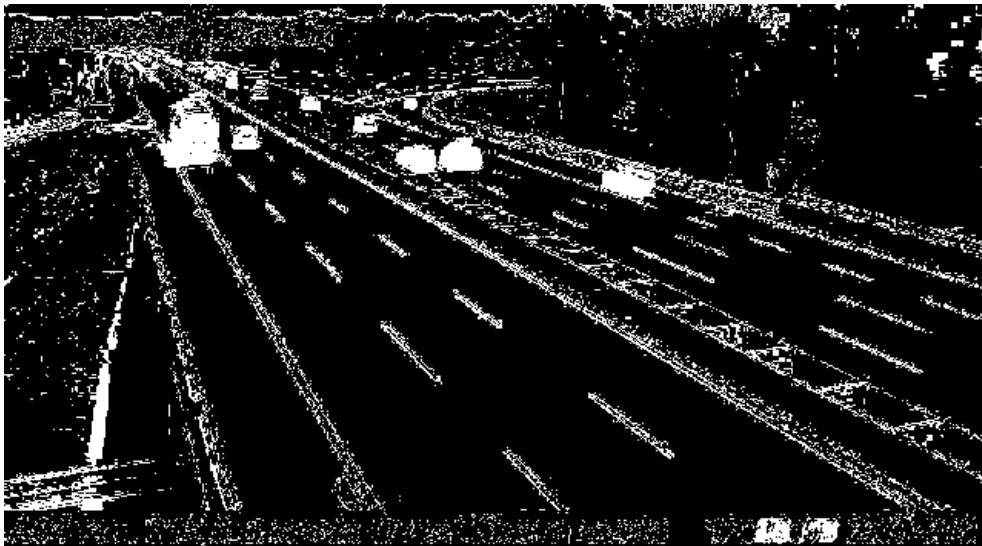Background detected with accuracy of 87.66%

Original frame:

autostrade//per l'italia

A04 km. 215,3 Brescia Ovest itinere ovest   12:46:57 27/04/19

Background detected:

autostrade//per l'italia

A04 km. 215,3 Brescia Ovest itinere ovest   12:23:08 27/04/19

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 1 WITH THRESHOLD OF 10

Background detected with accuracy of 60.27%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 2 WITH THRESHOLD OF 10

Background detected with accuracy of 84.53%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 3 WITH THRESHOLD OF 10
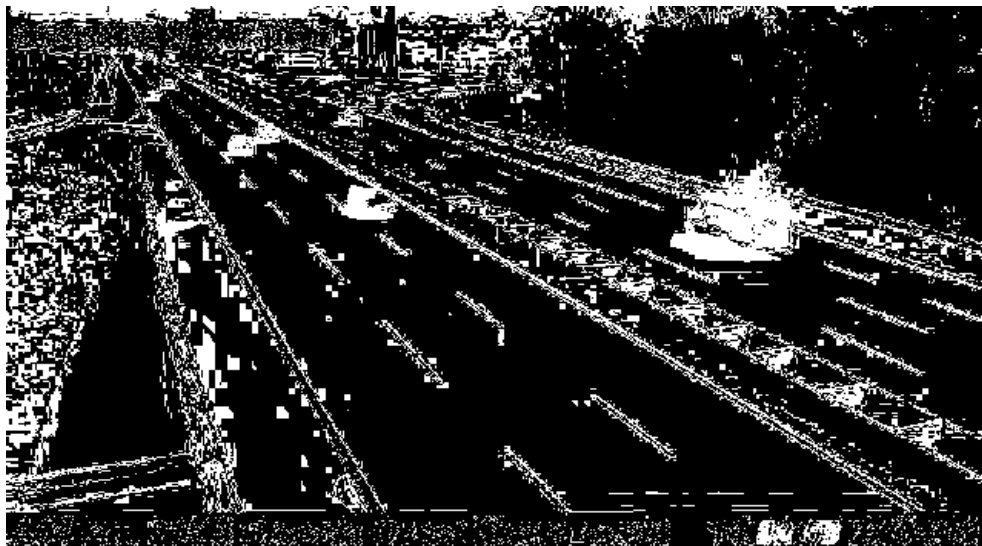
Background detected with accuracy of 79.37%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 4 WITH THRESHOLD OF 10

Background detected with accuracy of 85.8%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 5 WITH THRESHOLD OF 10
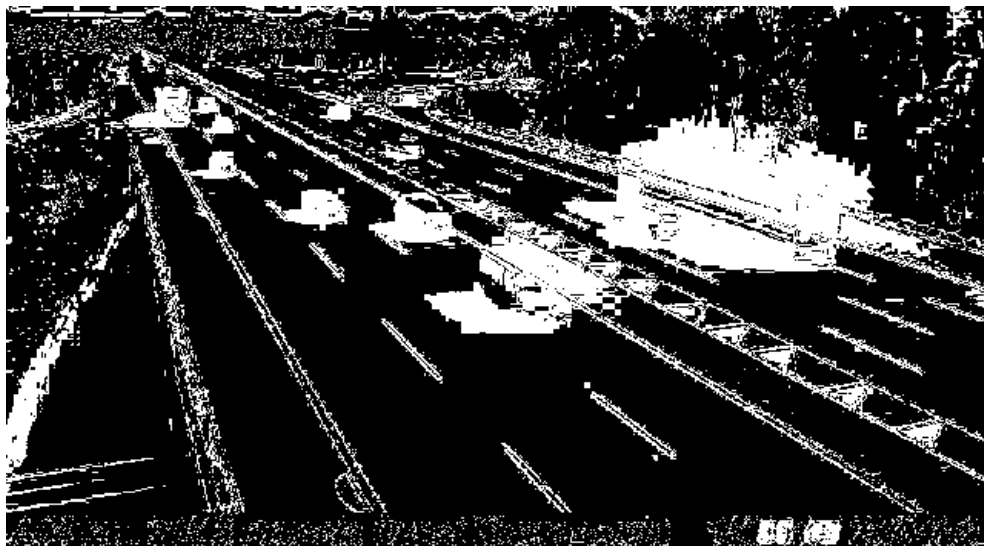
Background detected with accuracy of 77.97%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 6 WITH THRESHOLD OF 10
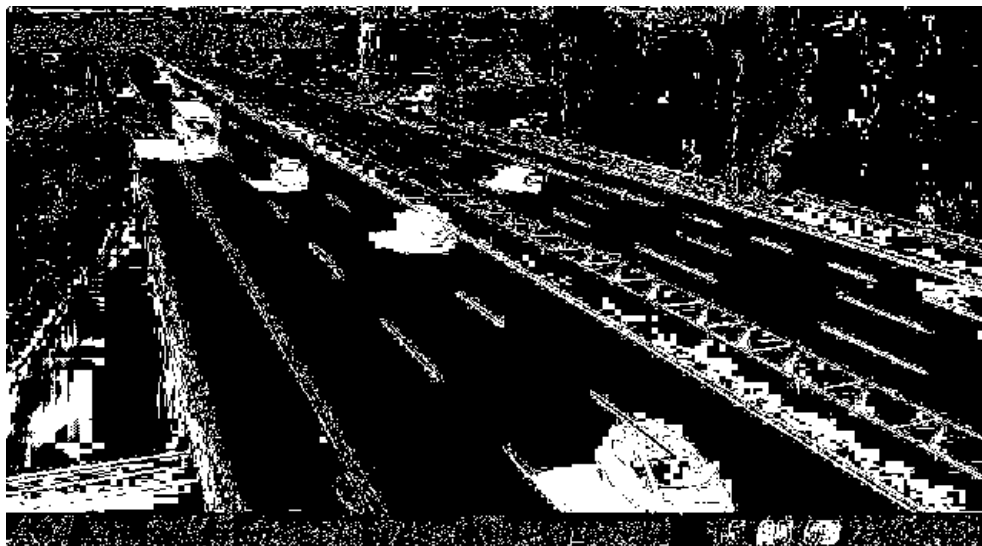
Background detected with accuracy of 80.28%

Original frame:

A04 km. 215,3 Brescia Ovest itinere ovest   16:28:57 27/04/19

Background detected:

A04 km. 215,3 Brescia Ovest itinere ovest   16:29:00 27/04/19

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 7 WITH THRESHOLD OF 10

Background detected with accuracy of 71.28%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 8 WITH THRESHOLD OF 10

Background detected with accuracy of 88.58%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 9 WITH THRESHOLD OF 10

Background detected with accuracy of 90.78%
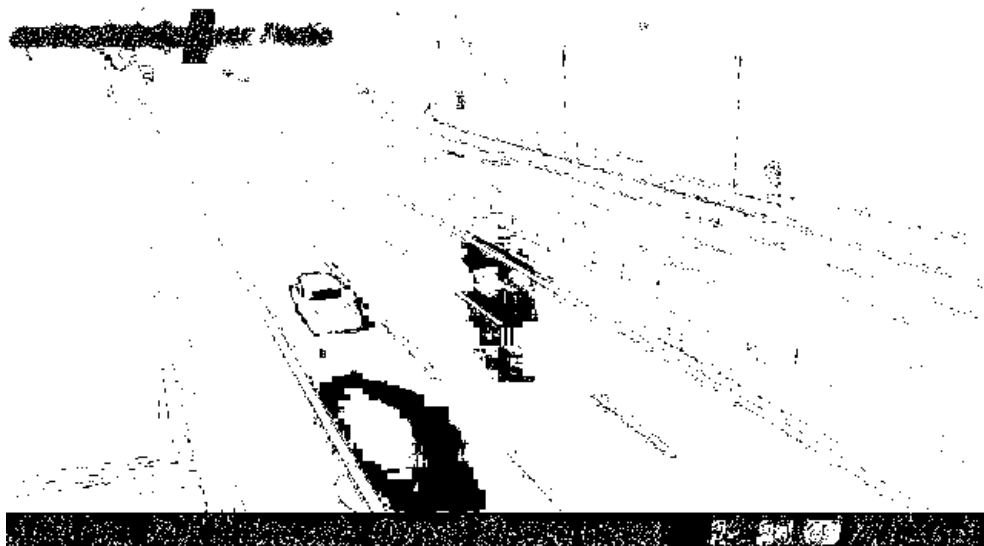
Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 10 WITH THRESHOLD OF 10

Background detected with accuracy of 53.01%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 11 WITH THRESHOLD OF 10

Background detected with accuracy of 78.73%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 12 WITH THRESHOLD OF 10

Background detected with accuracy of 10.4%
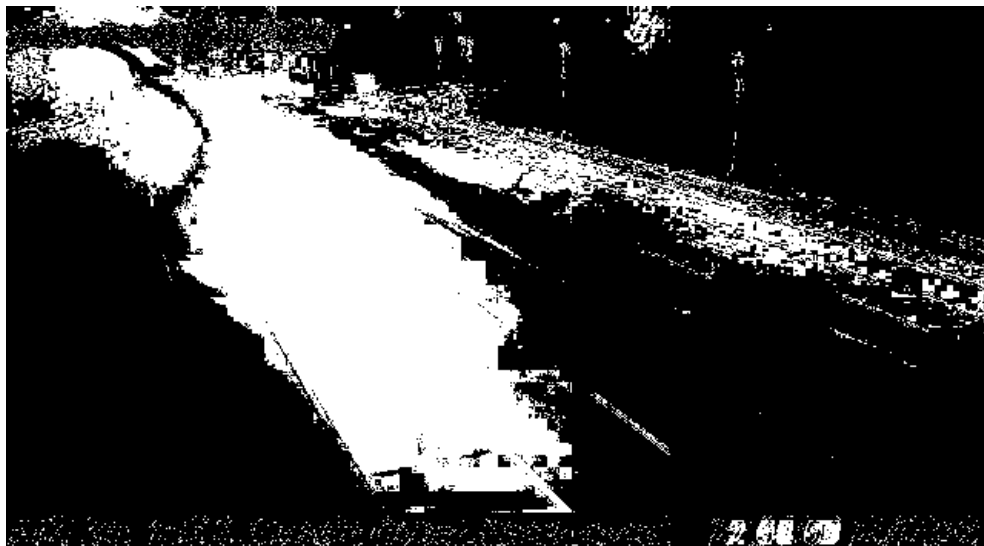
Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 13 WITH THRESHOLD OF 10

Background detected with accuracy of 20.89%

Original frame:

A04 km. 215,3 Brescia Ovest itinere ovest   21:30:57 27/04/19

Background detected:

A04 km. 215,3 Brescia Ovest itinere ovest   20:49:00 27/04/19

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 14 WITH THRESHOLD OF 10

Background detected with accuracy of 68.84%

Original frame:

A04 km. 215,3 Brescia Ovest itinere ovest   22:04:57 27/04/19

Background detected:

A04 km. 215,3 Brescia Ovest itinere ovest   21:55:00 27/04/19

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 15 WITH THRESHOLD OF 10

Background detected with accuracy of 75.37%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 16 WITH THRESHOLD OF 10
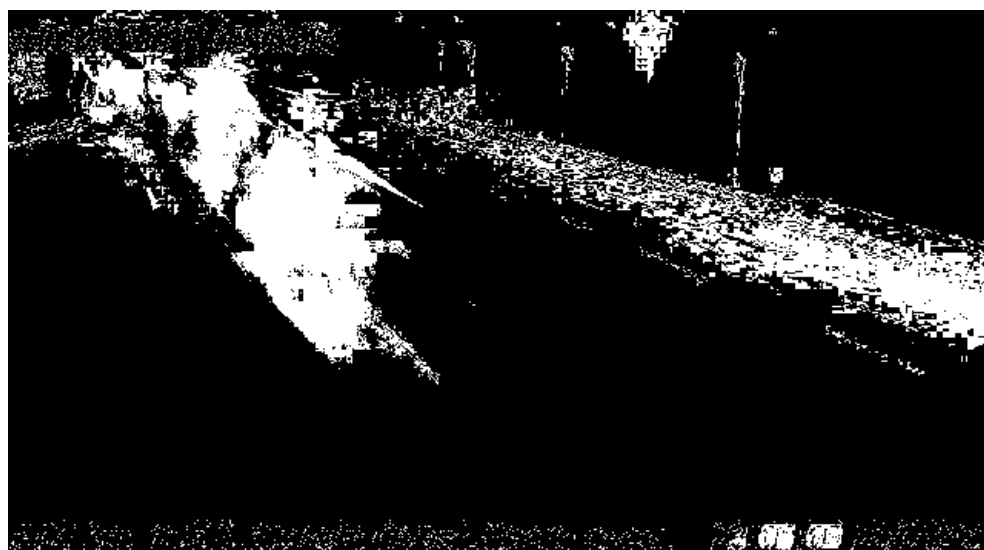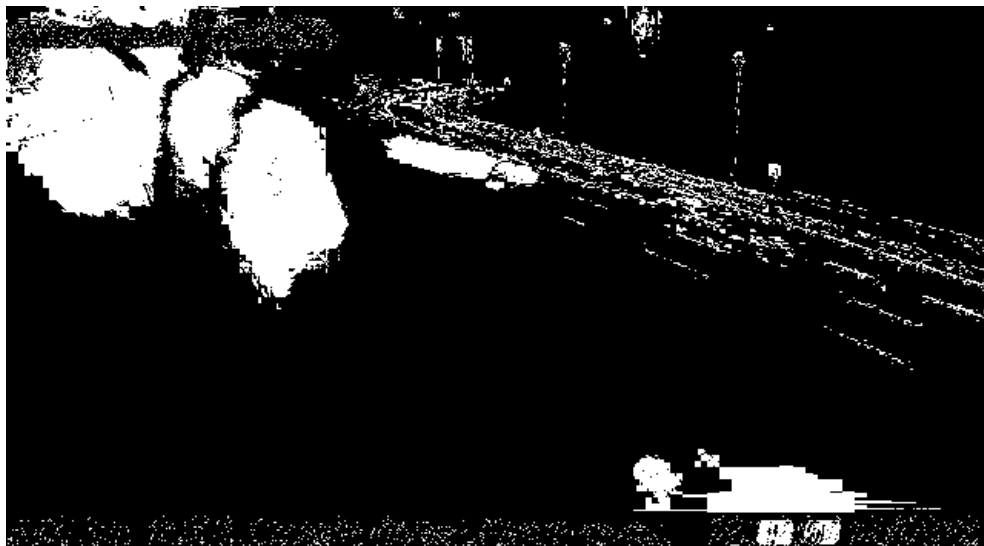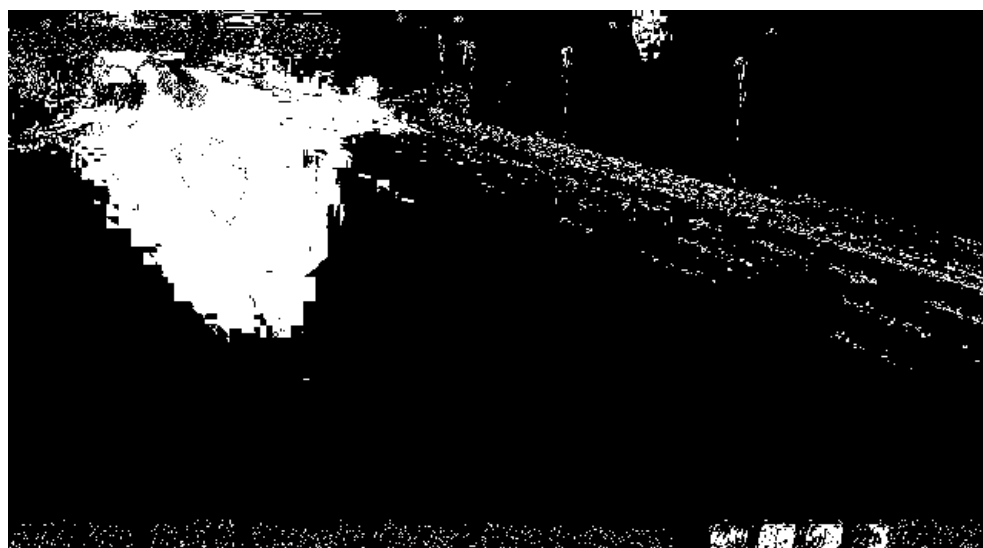
Background detected with accuracy of 83.06%

Original frame:

A04 km. 215,3 Brescia Ovest itinere ovest   23:16:57 27/04/19

Background detected:

A04 km. 215,3 Brescia Ovest itinere ovest   23:01:00 27/04/19

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 17 WITH THRESHOLD OF 10

Background detected with accuracy of 84.74%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 18 WITH THRESHOLD OF 10

Background detected with accuracy of 85.64%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 19 WITH THRESHOLD OF 10
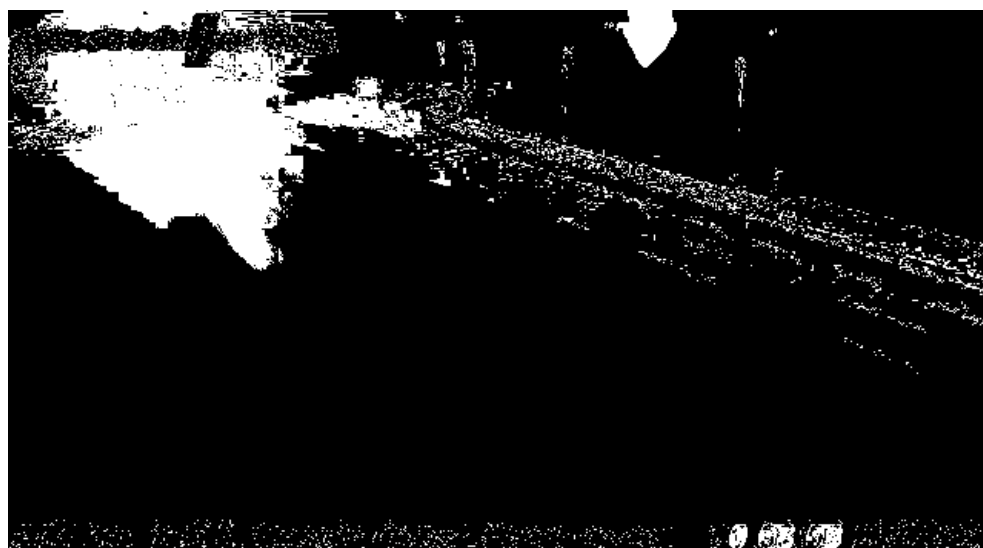
Background detected with accuracy of 87.16%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 20 WITH THRESHOLD OF 10
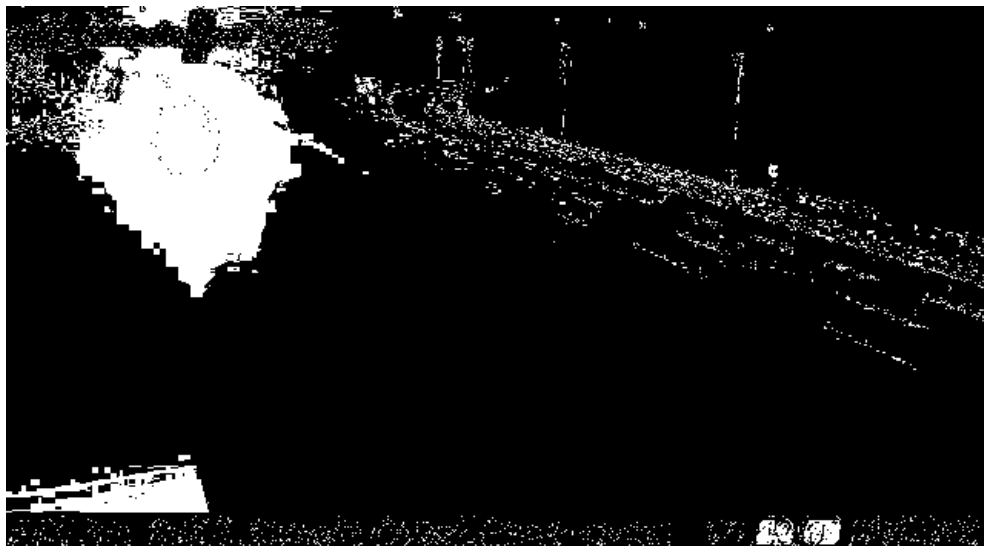
Background detected with accuracy of 88.06%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 21 WITH THRESHOLD OF 10
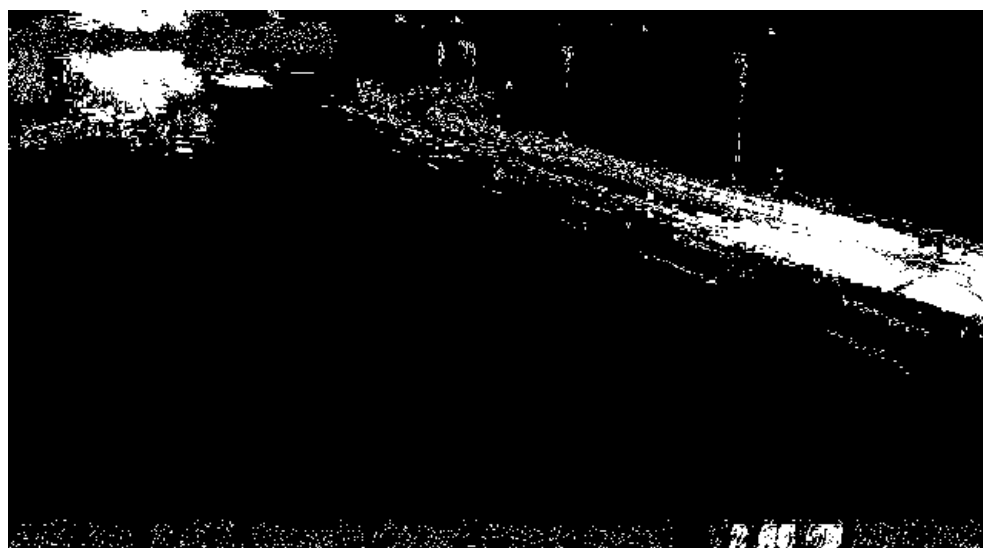
Background detected with accuracy of 92.39%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 22 WITH THRESHOLD OF 10
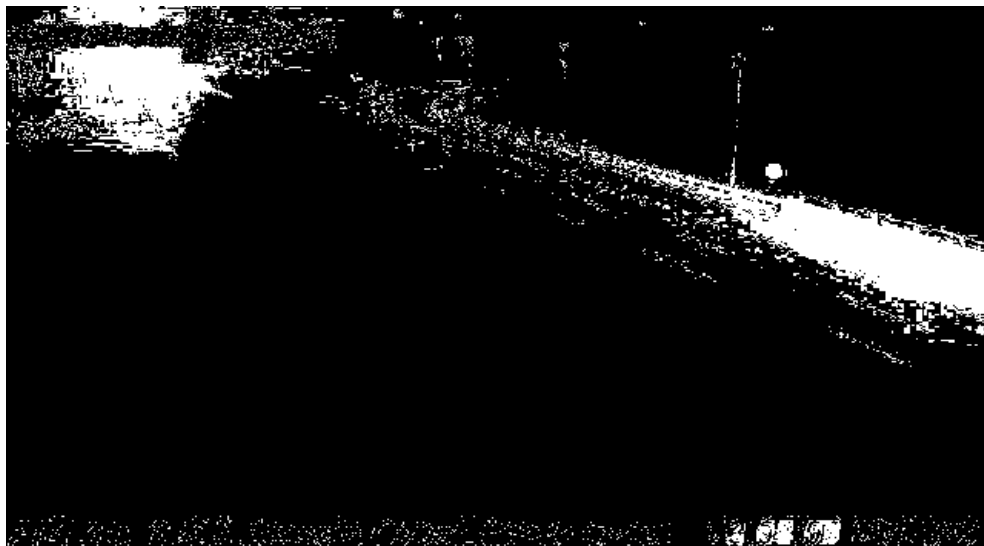
Background detected with accuracy of 91.07%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 23 WITH THRESHOLD OF 10
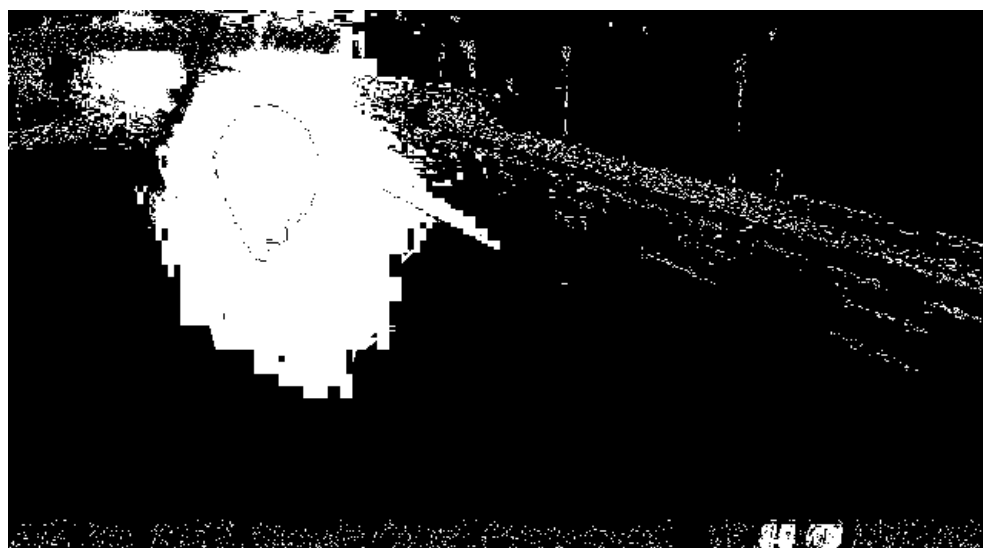
Background detected with accuracy of 81.42%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 24 WITH THRESHOLD OF 10

Background detected with accuracy of 96.16%

Original frame:

A04 km. 215,3 Brescia Ovest itinere ovest   04:26:57 28/04/19

Background detected:

A04 km. 215,3 Brescia Ovest itinere ovest   04:05:00 28/04/19

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 25 WITH THRESHOLD OF 10

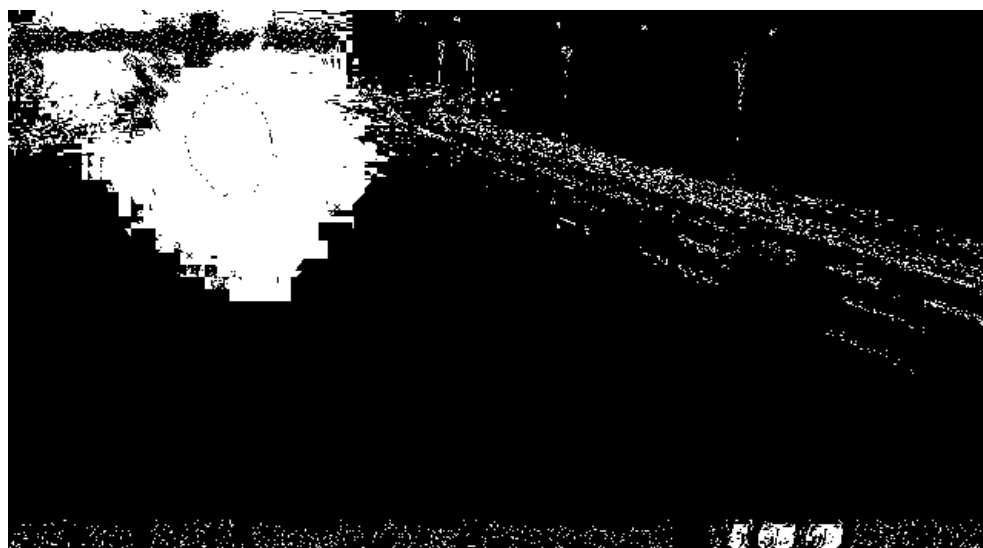Background detected with accuracy of 85.54%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 26 WITH THRESHOLD OF 10
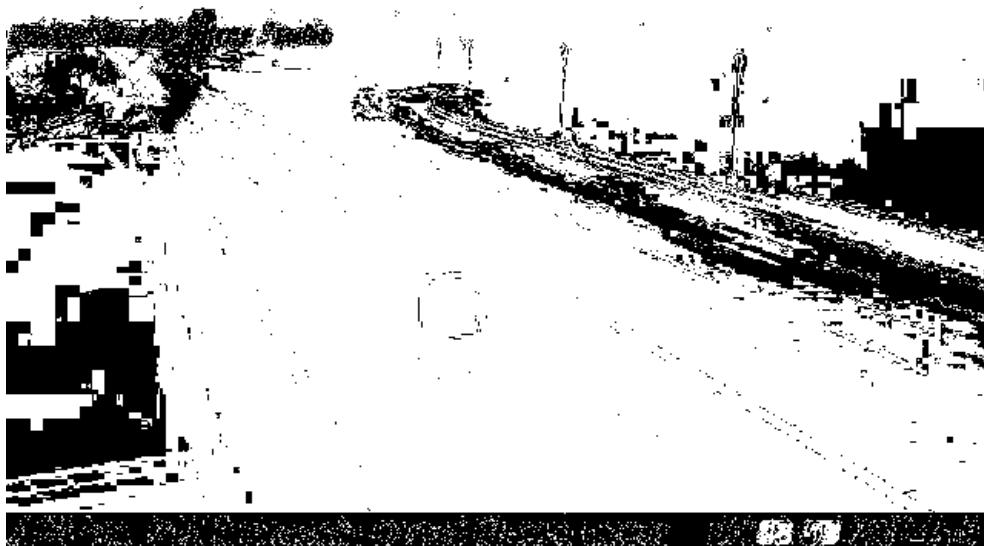
Background detected with accuracy of 19.92%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 27 WITH THRESHOLD OF 10

Background detected with accuracy of 70.49%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 28 WITH THRESHOLD OF 10
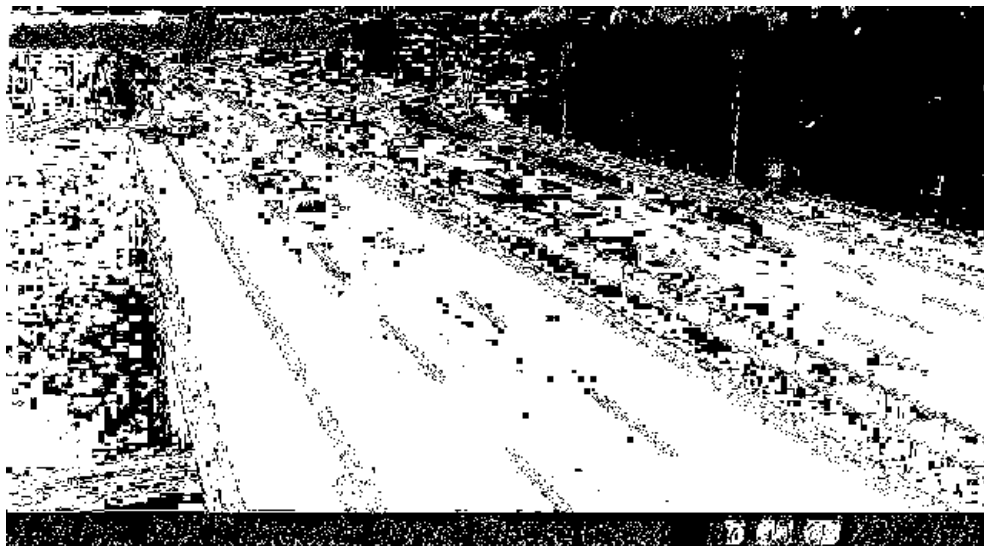
Background detected with accuracy of 36.06%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 29 WITH THRESHOLD OF 10
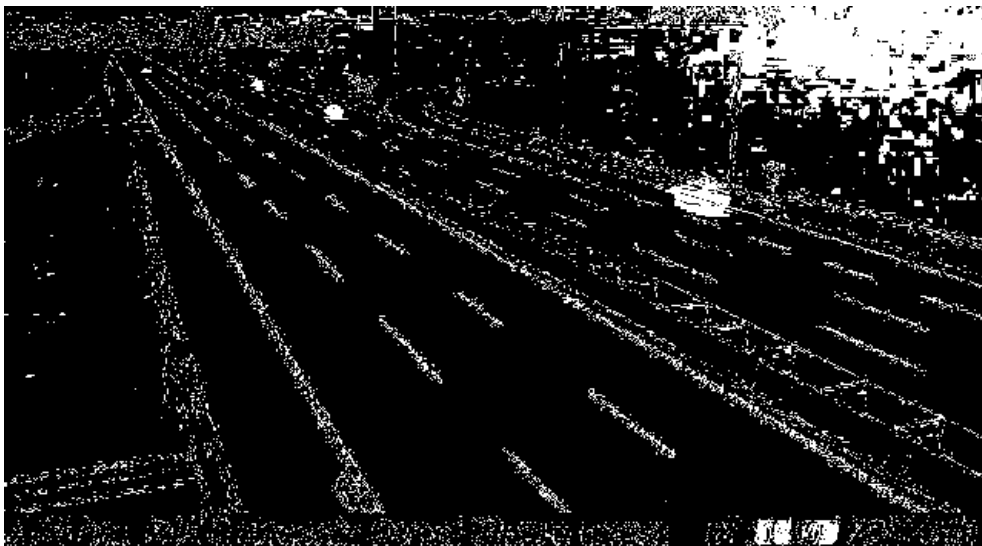
Background detected with accuracy of 87.38%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 30 WITH THRESHOLD OF 10

Background detected with accuracy of 92.96%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 31 WITH THRESHOLD OF 10

Background detected with accuracy of 82.46%
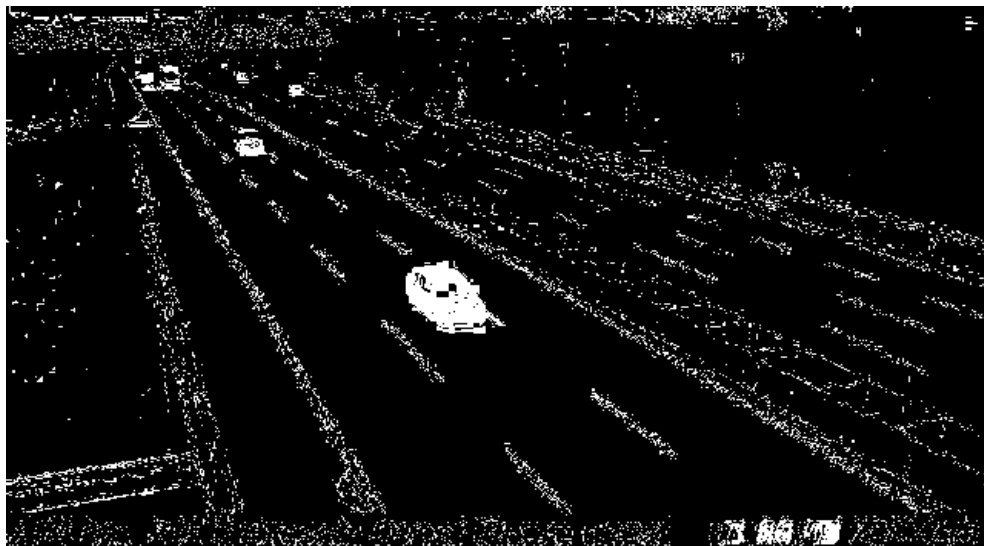
Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 32 WITH THRESHOLD OF 10

Background detected with accuracy of 77.72%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 33 WITH THRESHOLD OF 10

Background detected with accuracy of 78.17%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 34 WITH THRESHOLD OF 10

Background detected with accuracy of 82.41%

Original frame:

Background detected:

Error plotted with threshold of 12:

BACKGROUND DETECTION NUMBER 35 WITH THRESHOLD OF 10

Background detected with accuracy of 85.44%

Original frame:

Background detected:

Error plotted with threshold of 12: