

Politecnico di Milano AA 2018 - 2019

Computer Science and Engineering

IMAGE ANALYSIS AND COMPUTER VISION PROJECT

# **BACKGROUND SUBTRACTION**

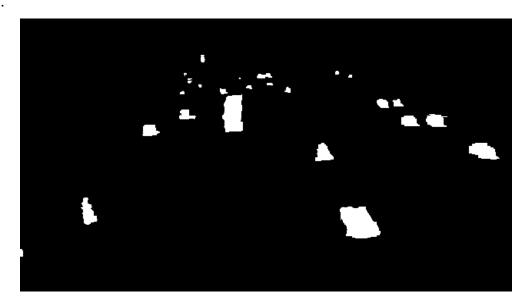
## Results report:

Webcam: A14 - km. 16,0 Bologna Fiera itinere Sud

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#### **DAILY FRAME**

#### Ground truth:



#### Model identified:



## Results:

True positive	True negative	False positive	False negative
3770	221671	1649	2031

Precision: 69.57% Accuracy: 98.39%

## **NIGHT FRAME**

#### Ground truth:



#### Model identified:



## Results:

True positive	True negative	False positive	False negative
1451	220330	4328	3005

Precision: 25.11% Accuracy: 96.8%

#### MIDDAY BACKGROUND DETECTION

Background detected with accuracy of 95.7% with threshold of 10 Original frame:



#### Background detected:





#### SUNSET BACKGROUND DETECTION

Background detected with accuracy of 89.1% with threshold of 10 Original frame:



#### Background detected:





#### MIDNIGHT BACKGROUND DETECTION

Background detected with accuracy of 98.93% with threshold of 10 Original frame:



#### Background detected:





#### **SUNRISE BACKGROUND DETECTION**

Background detected with accuracy of 12.72% with threshold of 10 Original frame:



#### Background detected:



