

Politecnico di Milano AA 2018 - 2019

Computer Science and Engineering

IMAGE ANALYSIS AND COMPUTER VISION PROJECT

# **BACKGROUND SUBTRACTION**

## Results report:

Webcam: R14 - km. 2,0 - BO Casalecchio itinere Ovest

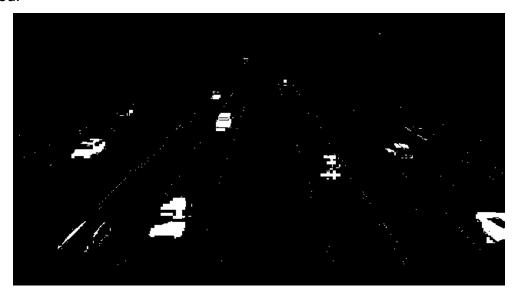
Andrea Mazzeo - 895579 Daniele Moltisanti - 898977

#### **DAILY FRAME**

#### Ground truth:



#### Model identified:



## Results:

True positive	True negative	False positive	False negative
3444	220447	483	4557

Precision: 87.7% Accuracy: 97.8%

#### **NIGHT FRAME**

#### Ground truth:



#### Model identified:



## Results:

True positive	True negative	False positive	False negative
928	226730	499	1143

Precision: 65.03% Accuracy: 99.28%

#### MIDDAY BACKGROUND DETECTION

Background detected with accuracy of 94.68% with threshold of 10 Original frame:



#### Background detected:





#### SUNSET BACKGROUND DETECTION

Background detected with accuracy of 8.06% with threshold of 10 Original frame:



#### Background detected:





#### MIDNIGHT BACKGROUND DETECTION

Background detected with accuracy of 96.84% with threshold of 10 Original frame:



#### Background detected:





#### **SUNRISE BACKGROUND DETECTION**

Background detected with accuracy of 84.31% with threshold of 10 Original frame:



#### Background detected:



