Function:

edge_deterioration_detector(image, mask, pixel_per_mm, edge_threshold=50, deterioration_threshold_mm = 80, line_method = 0)

File:

edge_deterioration_detector.py

Parameters:

Parameters	Description
image	(Int Array 3d) Road Image stitched
mask	(Int Array 3d) Inference mask of road
pixel_per_mm	(Float) Pixel ratio of road (number of pixels for 1 mm)
edge_threshold	(Int) Edge detection threshold (preferably 50 pixels) Default Value = 50
deterioration_threshold_mm	(Int) Max perpendicular distance of road edge from best fit line in mm that will be threshold for deterioration Default Value = 80
line_method	(Int) Method used for line fitting: • 1 → Hough Transform • 2 → RunSAT • Any other value → Poly fit (Simple line fitting similar to regression) Default Value = 0

Return Type:

The function returns a pair of bools that represents the status of left and right side of the road as (left, right)

Returned Value	Description
True	Edge + Deterioration Detection
False	Edge Detected but no Deterioration
None	Edge is not detected