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AI-ROAD3D

Counting and classification of vehicles, color and speed detection (average and above)













AI-ROAD3D



Al-ROAD3D is a video analytics app that allows counting and classification of vehicles passing by a virtual sensor in a given direction. Three vehicle classes are considered: motorbikes, cars and trucks. The app also identifies the color and average speed of each vehicle, and generates an alarm if this speed exceeds a certain threshold chosen by the operator. It is also able to assess traffic volume in real time.



AI-ROAD3D combines an advanced 3D calibration and reconstruction mechanism of the scene with the most advanced artificial vision and artificial intelligence algorithms.

The application is available in two versions: AI-ROAD3D uses the latest deep learning algorithms to classify moving objects; whereas AI-ROAD3D(-DEEP) uses these algorithms for both object detection and classification, guaranteeing high accuracy even in extremely complex scenarios, such as in tunnels or crowded city streets, at night or in severe weather conditions.

USE CASE Where can we use AI-ROAD3D?

AI-ROAD3D makes it possible to meet the needs of any city that would like to be defined as 'smart'. It provides the possibility of understanding and analyzing vehicle flows in the various city arteries by counting the various categories of vehicles. Analyzing the average speed of vehicles on the various routes allows the identification of roads crossed with a higher average speed (possibly higher than a set threshold), thus suggesting an optimal position for positioning surveillance patrols or automatic systems that can be used for sanctioning purposes.



Finally, in combination with the AI-DASH-PRO dashboard, the app can be used to monitor car parks by counting vehicles at the gates.













AI-ROAD3D









ARCHITECTURE Where can we install the app?











The detailed list of specific compatible platforms can be reached via the link on the right.

INTEGRATION Where can we notify the events generated by the app?



Events can be sent to external servers using over 20 different mechanisms, which include third-party VMSs, standard protocols (such as HTTP, FTP, MODBUS and MQTT) and also A.I. Tech proprietary protocols, which allow the notification of events to the dashboards of A.I. Tech. More information via the link on the right.

