



AI-WEATHER

Analysis of road surface, weather conditions and low visibility



A.I. Tech
The Vision of the future. Now.





AI-WEATHER

AI-WEATHER is the video analytics application, based on deep neural networks, can classify the state of the road surface [dry, wet, flooding] and the weather conditions as well as identifying the presence of sun, rain, snow, clouds, fog, and low visibility conditions.

AI-WEATHER allows you to exploit the cameras installed on the road, both in urban and extra-urban environments, to collect data for statistic purposes, to control adaptive street lighting pole or to raise alarms in case of potentially dangerous situations [e.g.: flooded tunnel or roads with low visibility].



AI-WEATHER USE CASE



AI-WEATHER can be used on roads and motorways to notify dangerous situations, informing drivers and/or the authorities in real time. In highways, for example, it is possible to notify drivers on variable message panels of the presence of low visibility situations, adverse weather conditions or flooding.

Flood detection can also be used in tunnels and underpasses, possibly preventing vehicle access and transit. Finally, it can be used to monitor infrastructures, such as power plants, hospitals, or industrial plants, to prevent damage from flooding.

Data about weather, low visibility and state of the road surface are crucial for the commissioning of adaptive street lighting poles [smart lighting].

Moreover, the extracted data can be historicized and used to identify trends and patterns, aiding in future prevention.



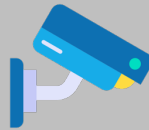
AI-WEATHER



ARCHITECTURE

Where can I install the app?

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



Edge



Embedded



Server

INTEGRATION

Where can I notify the events generated by the app?

Events can be sent to external servers using over 20 different mechanisms, including third-party VMS, standard protocols (such as HTTP, FTP, MODBUS and MQTT) and A.I.Tech proprietary protocols, which enable event notification to A.I. Tech dashboards.

More information via the link.

