

SnowCAM

WaterView introduces SnowCAM, a video analytics solution for using cameras to promptly detect snow cover on the road pavement in real time.

SnowCAM is powered by state of the art computer vision and machine learning technologies, that has been optimized to process large amounts of images in short

time even in embedded environments, from both fixed and mobile cameras (like those on vehicles or drones).

SnowCAM is able to detect snow covered areas in both urban and suburban contexts, in day or night time, and returns valuable alerts of snow presence with straight, curved and mixed roads.



Above: Detection of a light snow cover



Right: Detection of snow cover absence and presence, in both day and night conditions



Below: Detection of snow cover absence with snow covered sidewalks



SnowCAM can be used with any camera with a Full HD minimum resolution, and its outputs can be easily interfaced with third party solutions like Video Management Systems, Intelligent Transport Systems or Advanced Driver Assistance Systems.

SnowCAM outputs are multichannel notifications that contain information like the presence of snow on the ground, the percentage of the road covered by snow and, depending on the type of source camera, the name and position of the road.



In the era of smart cities, smart roads, smart everything, why not having smart weather and environmental monitoring, to automatically provide meaningful weather insights and make our lives better?

This is what we do everyday at WaterView, by developing groundbreaking technologies that look from a completely new perspective what everyone else considers a simple camera.

WaterView disrupted the market of weather monitoring technologies with WeatherCAM, a set of proprietary computer vision libraries for using images shot by ordinary cameras to track:



RAINFALL

Gauge rainfall intensity with 5 minute resolution



SNOWFALL

Detect snowfall inception, duration and settling



HAIL

Detect hail presence and severity



TEMPERATURE

Track environmental temperature variations over time



VISIBILITY

Assess visibility drops due to fog, smoke, precipitations or sand

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