

# SmoCAM

Early warnings are crucial to limit wildfires and their damages to people, natural heritage and properties.

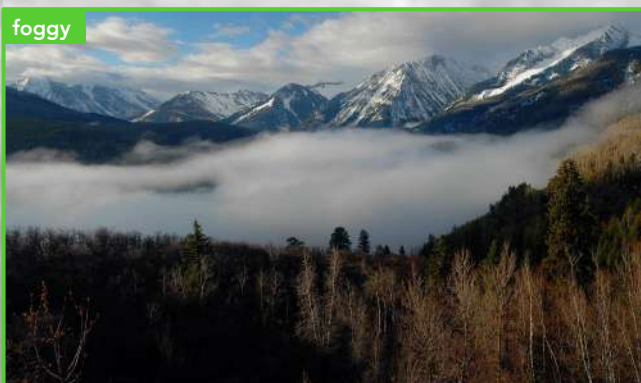
WaterView introduces SmoCAM, a video analytics solution that works in the visible spectrum and exploits common surveillance cameras to early detect smoke plumes in outdoor, thus reinforcing prevention activities even when thermal cameras fail.

SmoCAM is based on cutting edge computer vision techniques and machine learning technologies, to ensure detection accuracy in a variety of scenarios.

SmoCAM properly detects smoke plumes in both natural and urban contexts, no matter if the images are shot at ground level or are aerial ones, and correctly distinguishes smoky from foggy pictures.



Proper smoky image classification with smoke plume detection (above) versus proper foggy image classification (below)



SmoCAM is the perfect tool to improve safety in a variety of situations:



Urban areas



Natural areas and parks



Cultural heritage and archaeological sites

SmoCAM can be used with any IP surveillance camera with a Full HD minimum resolution, and performs server side analytics that can be easily interfaced with third party solutions like Video Management Systems, Intelligent Transport Systems or Decision Support Systems.

SmoCAM outputs are multichannel notifications that contain information about the name and position of the camera that has detected the smoke plume, as well as an estimation of the distance of the plume from the camera.



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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