



# Visual Profiler

## Bandar Abbas – Use Case

### Automatic Detection, Classification and Monitoring

Video Inform **Visual Profiler** is an AI&ML revolutionary software for detecting, classifying, interpreting, profiling, and managing objects in aerial and satellite images.

The **Visual Profiler** is a proprietary technology that integrates state-of-the-art Deep Learning schemes with other machine learning approaches to maximize performance and can uniquely distinguish and categorize different objects much as humans do cognitively.

Whether it is a wide area or specific sites, the **Visual Profiler** system enables organizations to cope, efficiently and simply, with the imagery overload by automatically detecting and classifying objects of interest, to streamline the analysis workflow, thus providing monitoring and alerting to changes or deviations from routine.

## Visual Profiler - Key Strengths



A complete cognitive AI Machine Learning engine, designed for the analyst



An ensemble of AI and ML, which is automatically selected for optimal performance



Small amount of training examples, Usually ~100's up to ~1000's to rapidly adjust to new operational needs



Resiliency and robustness to unforeseen changes such as lighting and seasonal effects.



Unlimited object definition and profiling flexibility

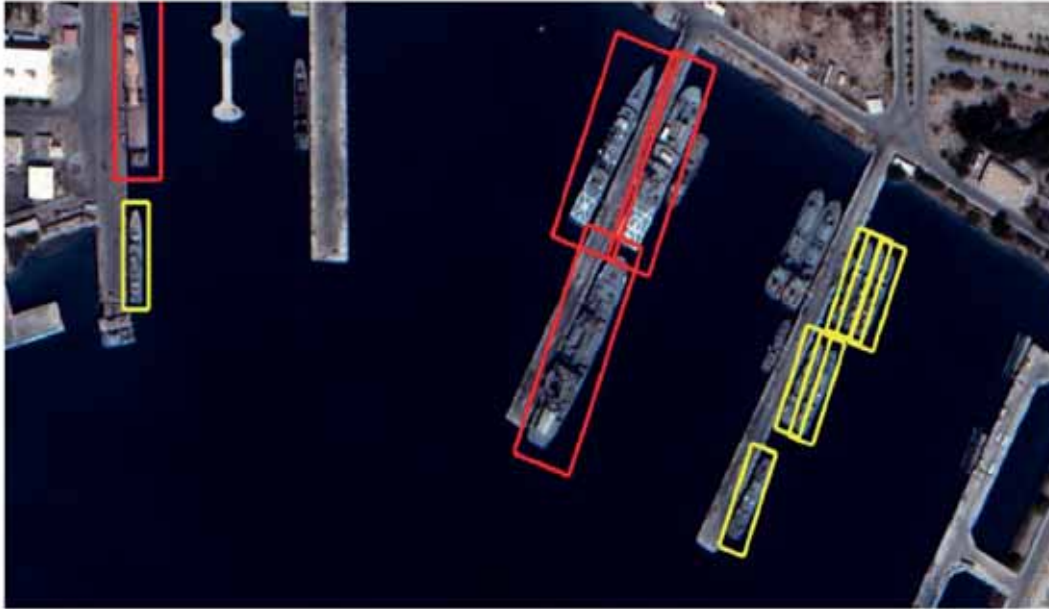


Adjusts to almost any sensor

[www.metavi.ai](http://www.metavi.ai)

Bandar Abbas, the Iranian Navy HQ and main base, showcasing 6 different trained profiles (objects detection algorithms) - Frigate (~100 meters long), Patrol boat (~50 meters long), submarine, hovercraft, helicopters and oil tanks using MAXAR satellite imagery 30-50 cm. resolution.

Images taken from consecutive different time periods where used. 7 images were used for the training process. Results on other images are presented.



Frigate



Patrol Boat



Submarines



Hovercraft



Oil tanks



Helicopters