ARTIFICIAL INTELLIGENCE FOR IMAGE ANALYSIS

eyedea RECOGNITION

Eyedea Recognition s. r. o. is focusing on developing high-end computer vision solutions, primarily on object detection and object recognition systems based on state-of-the-art machine learning and artificial intelligence methods. Our systems are installed and used all around the world.
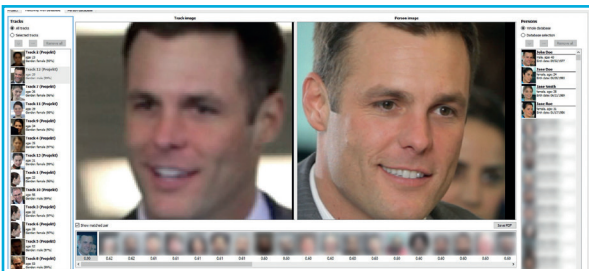
VEHICLE CLASSFICATION

Software analyzes vehicle appearance and recognizes vehicle category, make, model and color.

It recognizes frontal vs. rear view, 6 vehicle categories, 126 vehicles makes, 821 vehicle models. The category classification accuracy is higher than 98%, make and model is higher than 95%. It works even with low-resolution images from 20 pixels per meter. Execution speed is less than 40 milliseconds per vehicle.

EYEDENTITY

Ready-to-use forensic face recognition software. The user can manage a database of enrolled individuals, process images and videos acquired in cases and execute face similarity queries using a desktop application.

Software achieved 2nd place when evaluated in NIST FIVE along with top face recognition vendors.
It is used by EUROPOL - European Counter Terrorism Centre, Police of the Czech Republic - Organized Crime Unit and Anti-drug Unit, and Police Nationale France - DCPJ / SDAT Anti-terrorisme.
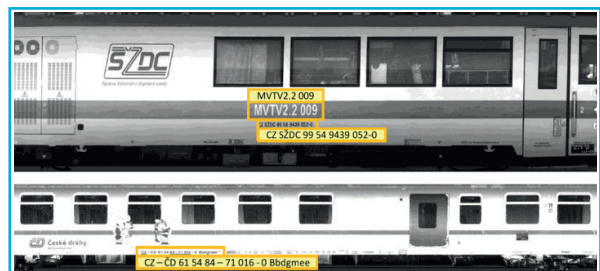
NUMBER PLATE READING

Eyedea Recognition produces a license plate reading software both for static and moving (hand-held) systems. We specialize mainly in high-end ANPR solutions optimized according to customer specifications, including two rows number plates and ADR plates.

READING UNREADABLE

We offer system for reading unreadable license plates captured in bad conditions by non-ANPR cameras, which are even impossible or hard to read by human.

UIC WAGON NUMBERS
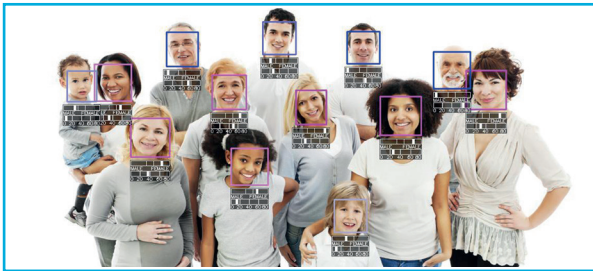

We offer system for reading UIC wagon numbers.

ANONYMIZER

Software detects faces and car number plates in various scales and orientations and applies blurring filters to make the faces unidentifiable and the number plates unreadable. It supports 360º panoramic images.

EYEFACE

Our fast algorithms will find and count all visible human faces in your image or video, even in low resolution.

Who are those people? We are providing estimated information about their age and gender.

VIDEO MATCHING

Searching a short video in a longer one. Invariant to light changes, image deformations like scaling, black borders, compression artifacts, logo addition. Extremely fast, low storage requirements.
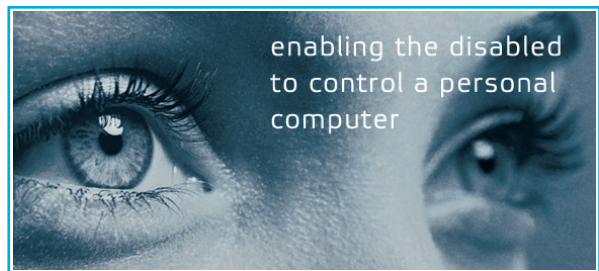
Used by Nielsen Admosphere, a.s. for a non-stop automatic detection of all advertisements in all TV broadcasting.
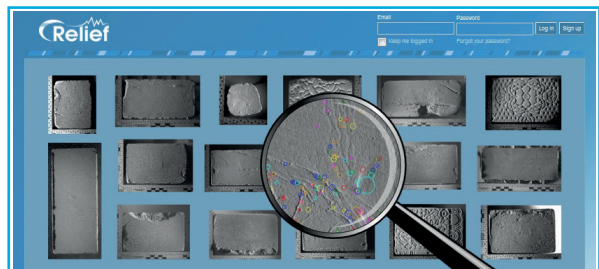
IMAGE SEARCH

Searching by image in databases containing millions of images. Use your image as an search input, we can recognize cropped, rotated and edited images, even in low resolution, including object detection in different photos taken from different viewpoints.

EYE MOTION ANALYSIS

Robust eye tracker enabling a personal computer control through movement of the eyes or head. Can be used for advertisement analysis via attention heating maps, detection of driver's closed eyes and other applications.

RELIEF

International forensic database of tool mark traces for police experts based on AI methods.