

Viulib[®] (Vision and Image Utility Library) is a set of libraries designed for rapid prototyping of advanced **computer vision, machine learning and artificial intelligence solutions**. Viulib[®] reduces development time, facilitates technology validation, supports multiplatform integration and enables transparent licensing schemes.

Vicomtech has combined in Viulib[®] a collection of algorithms and software development techniques to produce a **flexible framework**, ideal to create computer vision solutions tailored to your market needs.



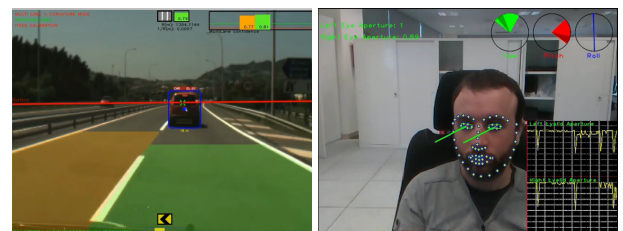
Features

- Deep Learning-based computer vision
- Image and video analytics
- Real-time operation
- Multi-platform/multi-OS
- C++ implementation
- Compatibility with CPU/GPU architectures
- Optimisation for embedded systems
- Modular architecture and simplified dependencies

Application Domains

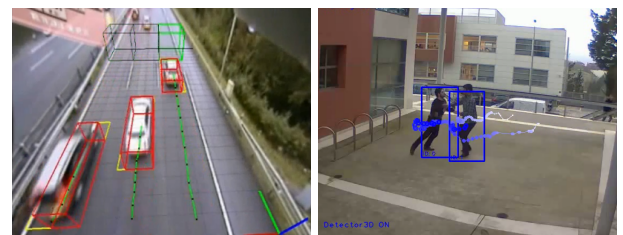
Advanced Driver Assistance Systems

- Lane Detection and Modelling
- Vehicle Detection and Classification
- Traffic Sign Recognition
- Pedestrian Detection
- Driver Status Monitoring
- Simultaneous Localisation and Mapping (SLAM)



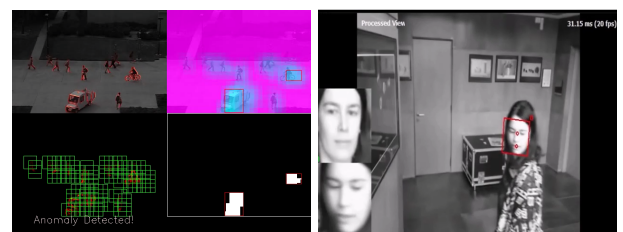
Smart Infrastructure

- Non-Intrusive Vehicle Counting and Classification
- Traffic Understanding and Early Event Detection
- People Behaviour Tracking
- Multi-camera Analysis for Large Infrastructures
- 3D Inference Based on Perspective Analysis



Safety and Security

- Anomaly Detection in Critical Infrastructures
- Real-time Face Recognition
- Individual Re-identification Using Body Features
- Semantic Analysis for Complex Event Detection



... and much more!

Viulib[®]

turning **vision** into **reality**

Advanced Computer Vision Library

Solutions for Multiple Sectors



ADAS and AD



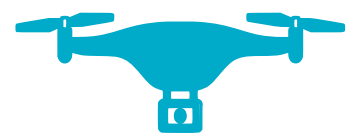
Traffic Management



Surveillance



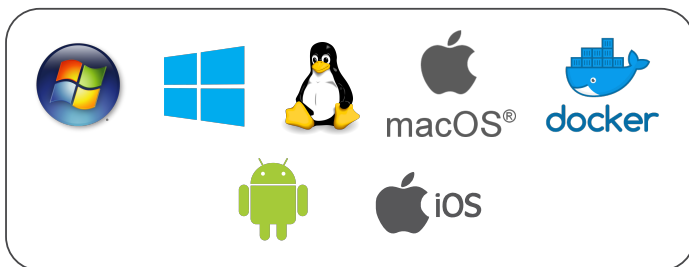
Manufacturing



Aerial Monitoring

Complete and Flexible

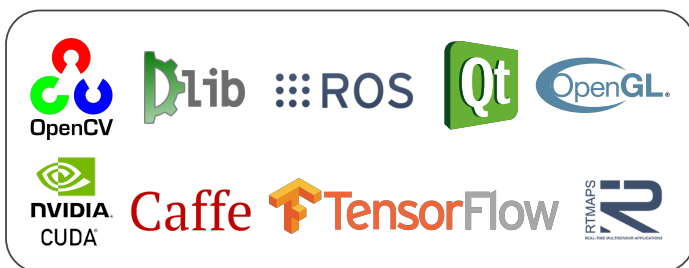
OS



Platforms



Libraries and Frameworks



Development Tools



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