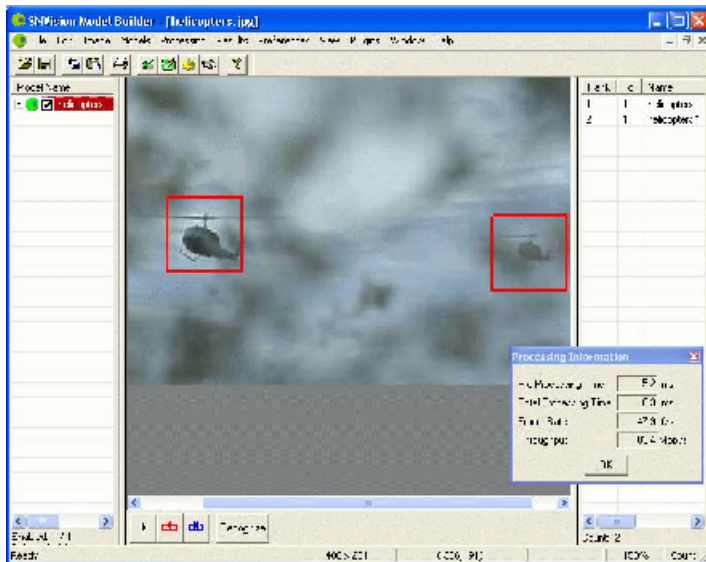


Image Recognition Software

SNVision SDK



Detection of 2 helicopters in a cloudy sky

Powerful Processing Algorithms

SpikeNet Vision is a revolutionary object location software technology featuring extremely fast processing and improved robustness compared to classical algorithms.

This technology is based on 15 years of research by the Brain & Cognition Center in Toulouse (France). It simulates large networks of asynchronous spiking neurones.

SpikeNet Vision is directly inspired by the strategies used by the human visual system.

What is SNVision SDK?

SNVision SDK is a software toolkit for developing powerful PC-based vision applications.

The package includes:

- **SNVision Model Builder**: an application that enables you to create the models that you wish to locate. You can test the robustness of the recognition on a set of images, in order to find optimal settings. Each time the recognition process is initiated, SNVision MB provides information about the results (processing time, number of models that were found in each image, location of these models). Once your models have been tuned, you can save them in a model file (*.snm) that can be loaded into SNVision Library (the dll) and used during the recognition process.

- **SNVision Library** (.dll): the true core of our technology. It is made of 50 fully documented functions for image processing and analysis. It locates an unlimited number of targets extremely fast. Computation time increases linearly with the number of models.

SNVision Library is the runtime module which enables you to include SpikeNet Technology into your application.

MAIN FEATURES

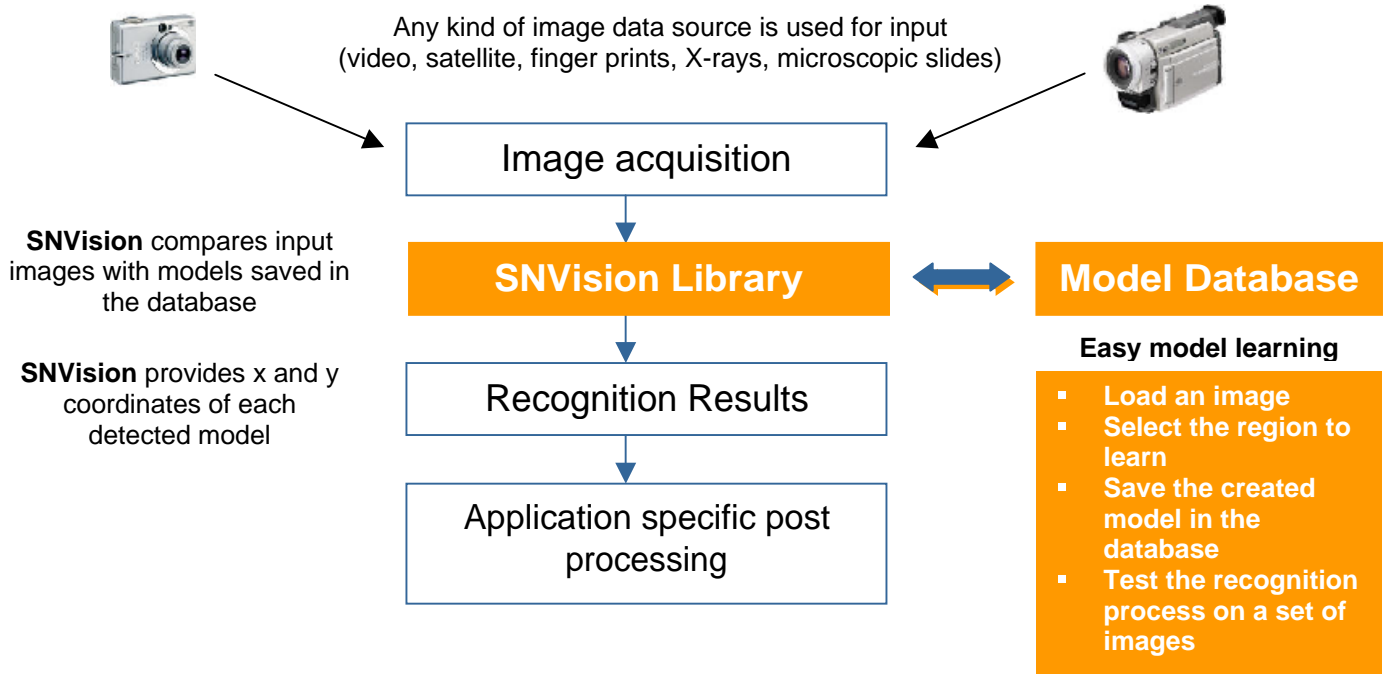
- Real-time detection of objects
- Tolerates rotations and changes in object scale or resolution
- Great tolerance towards noise and light conditions
- High speed detection of multiple targets
- Ability to locate contiguous and occluded objects
- Dynamic learning
- Linear and limited memory use < 32 MB

SPECIFICATIONS

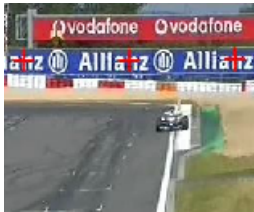
- 800 MHz Processor or higher
- Compatible with Microsoft Windows 98 SE, ME, 2000 or XP
- Allows development with Microsoft Visual C++, (6.0 or .NET) Microsoft Visual Basic (6.0 or NET)
- Combination with acquisition boards of many manufacturers



Rapid Application Development



SNVision Applications



Logo Detection and Measuring

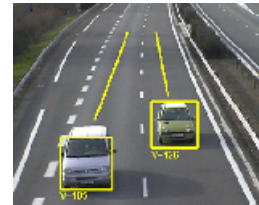
Detecting logos on broadcast TV images for content analysis and indexing of video flows, detecting online copyright infringement.

SNVision empowers a wide variety of challenging vision applications



License Plate Identification

Locating and interpreting license plates alphanumeric on moving or parked vehicles.



Traffic Analysis and Monitoring

Measuring road frequentation and providing accurate speed estimation. Detecting accidents and congestion to optimise traffic flow.

Access Control and Biometrics

Iris location and identification. Securing access to physical location and sensitive information.

Baggage Screening

Identifying concealed weapons in passenger hand and checked baggage.



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