



Neuro Laboratory 1.1

Designed especially for
Education & Research
2006 - 2008

Professional Edition

Enrich Your Applications with a Power of Neural Networks

Neuro Laboratory 1.1 Professional

Since neural networks became one of the most important data classification paradigm a number of engines which use it as core technology headily grows. A group of Scientific Software engineers works over multifunctional engine for operating neural networks. The main goal of this software is creating tool which can be used and applied to any practical task and presents all necessary facilities for both scientists and developers.

Target platforms: Windows 2000 Professional / 2000 Server / XP / 2003 Server

Release date: August, 2006

Network Importing SDK 1.1

Software architecture and its concepts were significantly updated since first release in September, 2005. Due to new wave in company management core engine of Neuro Laboratory became cross-platform to increase a number of potential applications. Avoiding platform dependencies allows us to exceed the bounds of desktop systems and to take a step on the path to embedded and cluster systems.

Target platforms: All Windows and Linux platforms supported.

Release date: November, 2006

For more information on this topic, please visit

http://scientific-soft.com/?content/download/product.htm&product_name=nisdsk

Solution Evolution and Company Plans:

- Complete portability tendency.
- Distributed solutions development (based on cross-platform release of Network Importing SDK).
- End-use applications (based on neural networks) development and production in the spheres of *remote sensing* and *financial forecasting*.
- **!!! Neuro Laboratory 1.2 Multispectral Images Processing Kit** release in December, 2007.

Features tour:

- **Scripting Environment** was extended with new opportunities for importing and processing different data.
- A set of data processing paradigms were included in **Network Elements Toolbox**, so they can be used now to enhance network models. Among them are: Canny edge detector, fast Fourier transform, principal components analysis.
- Neural network customization became much easier due to implementation of **Scripting Element**. Neural network of any topology and structure can be created in minutes. This feature allows you to apply any data processing method or paradigm to your solution.

Areas Builder 1.0

Areas Builder created as a part of **Network Importing SDK 1.1** to demonstrate one of the most significant practical applications of this library. The goal of this tool is to perform experiments over multispectral images with previously constructed and trained artificial neural network (ANN) models.