

ANNS

Assembler-based Neural Network Simulator

ANNS is a neural network simulator based on assembler language with a simple and intuitive Matlab interface.

ANNS package dynamically generates ASM code, automatically embedding it into Matlab MEX file (Matlab C interface) for a fast and highly optimized code for neural network training and simulation.

ANNS package is particularly suitable for pattern recognition tasks, when speed becomes the most relevant issue.

ANNS package implements the backpropagation algorithm and includes:

- arbitrary length of input feature vectors
- one hidden layer
- hyperbolic tangent activation function on the hidden layer
- linear activation function on the output layer
- scalar output

ANNS package uses the Netwide Assembler, available at <http://sourceforge.net/projects/nasm>

In order to obtain the complete source code please visit

<http://www.advancedsourcecode.com/netassembler.asp>

Copy all files in Matlab current directory.
Type “test_main” on Matlab command widow.

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