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# CogniSoft Image Trainer

## Introduction

The CogniSoft Image Trainer is a training utility that augments the V1KU module for accelerating the creation of knowledgebases based on 2-d image data based on the CogniMem technology. This utility allows you to create, validate, and modify training data for accuracy and thoroughness. Capture training data once, and use the training session data to optimize recognition accuracy with the built-in training activity monitor. Remove inaccurate training data and replay the training steps to validate your changes.

## Features

- View live video feed
- Control camera settings (e.g. gain, shutter, brightness, etc...)
- Control region-of-interest (ROI) and region-of-search (ROS) settings
- Create knowledgebases
- Validate knowledgebases
- Create/replay training sessions
- Save knowledgebase files
- Append knowledgebase files
- Automatic synthesis of different training examples based on perspective, brightness, rotation
- Ability to edit and retrain knowledgebase content via the Training History feature
- Automatic iterative training capabilities (for convergence)
- Supports “counter-example” training to control neuron influence (weight)

## Compatible Platforms

- Windows XP, Windows Vista, Windows 7
- Linux

## Applications Spaces

- Anomaly detection
- Industrial part inspection
- Subject classification
- Subject identification
- Event detection
- Selective/event-driven camera transmission

*Go to next page for application screen shots...*

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## Application Screen Shots

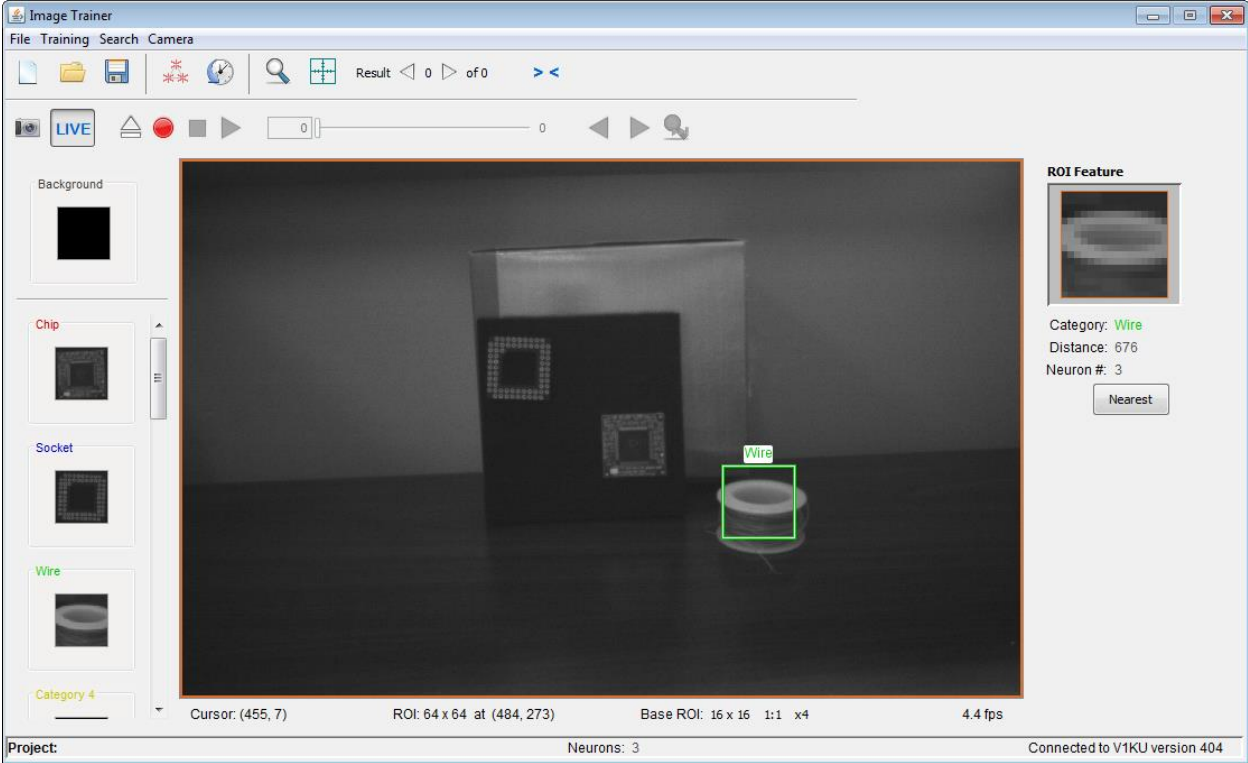


Figure 1: Main Application View

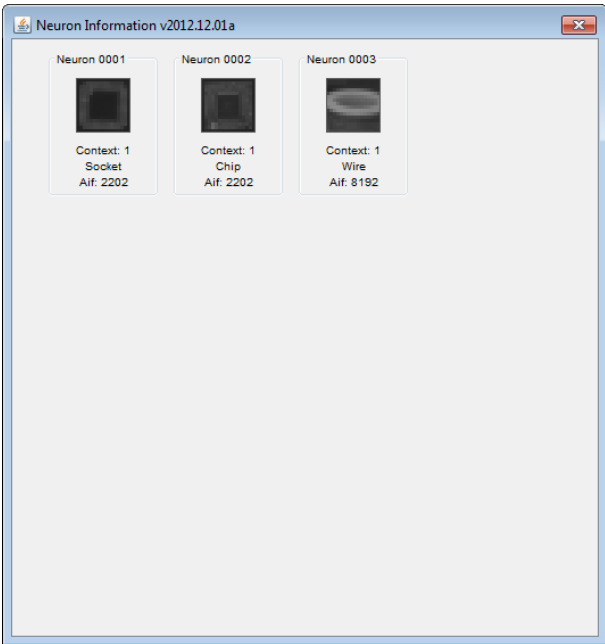


Figure 2: Knowledgebase View

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## Application Screen Shots (continued)

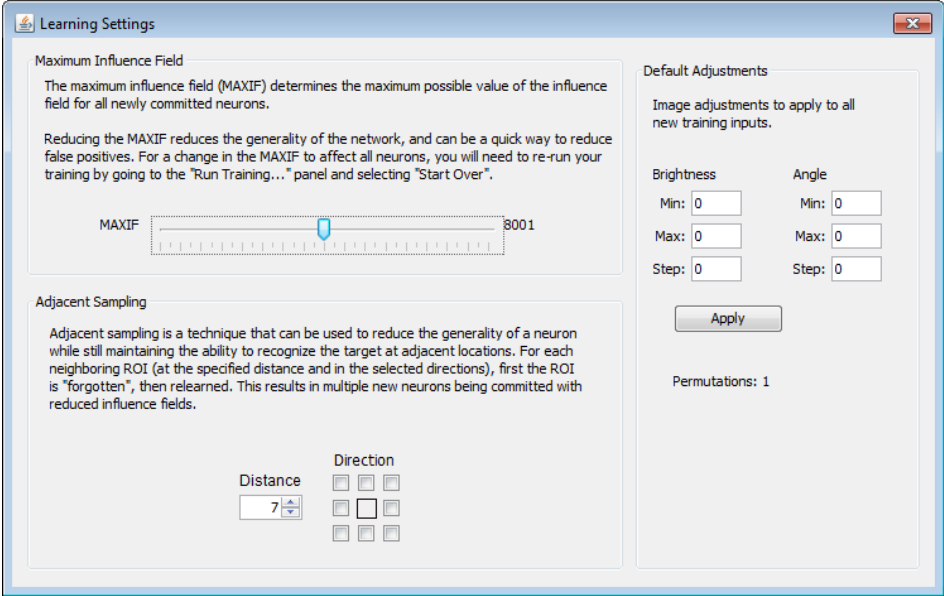


Figure 3: Learning Settings View

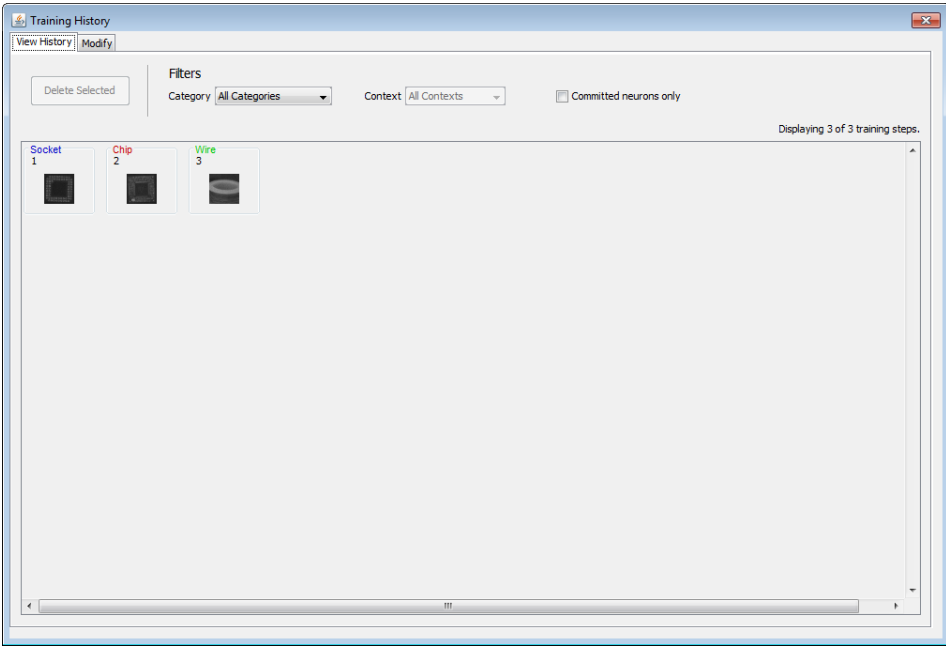


Figure 4: Training History View

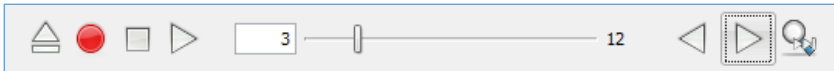


Figure 5: Training Session Controls