



Multipurpose trading solution

with proprietary analytic
and artificial intelligence



Executive Summary

Tradecision is a professional-level trading software application for charting, technical analysis and building trading systems.

As well as employing the best of the commonly used techniques, Tradecision uses neural networks and genetic algorithms, providing several exclusive technical analysis capabilities.

Using proven techniques and Alyuda's proprietary built-in algorithms, Tradecision's users can analyze markets, test their ideas and maximize their profits while keeping their risks low and rewards high.

Tasks That Can Be Performed Using Tradecision

The Tradecision application provides functionality for performing the following trading tasks:

- Developing and testing trading systems that are based on neural networks and technical indicators;
- Strategy back-testing using Simulation Manager and a customizable language;
- Charting with easy-to-use drawing tools;
- Analyzing price data by using indicators and analytical studies;
- Using genetic algorithms for fast and efficient trading system optimization;
- Forecasting market moves and turning points.
- Following market quotes in real time in Quote Window.
- Using Direct Trade Execution mode for Automated trading.

Functionality Overview

Trading Systems

- Strategy Builder;
- Simulation Manager;
- Improvian Language;
- Function Builder;
- DLL Manager;
- Portfolio testing;
- Comprehensive reports and graphs.

Money Management

- Point-and-click money management editor;
- Stop-loss, trailing stop and profit target rules;
- Optimal F, Kelly, Fixed Fractional Trades and Williams formulas;
- Custom Formula for Position Size.

Artificial Intelligence

- Wizard-based creation of neural models;
- Neural network-based predictions and strategies;
- Fast optimization with Genetic Algorithms.

Charting

Charts in the line, bar or candlestick styles;
Trend-lines, Fibonacci, Gann, Pitchforks, figures and other drawing tools;
Up to 6 visible sub-charts;
Templates.

Analytical Studies and Indicators

More than 20 analytical studies, including Noise Removal, Ingenious Moving Average, trends analysis, patterns, Fibonacci clusters;
Hurst Exponent;
The most popular indicators, including RSI, %R, MACD, OBV, Stochastics and more;
Custom Indicators and Custom Studies;
Jurik Research's tools;
Custom Time Series.

Elliott Wave Analysis

Automatic wave identification;
Automatic corrections identification;
Custom wave definition for experts.

Data Management

Data Manager with free end-of-day data downloader (Yahoo & MSN);
Streaming data: eSignal, IQfeed, Interactive Brokers, Forex.com;
User-configurable ASCII import wizard;
Built-in Metastock® and CSI database importer.

Intraday Trading

All techniques in real time;
Custom minute charts;
eSignal, IQfeed, Interactive Brokers, Forex.com, TD Ameritrade data support;
Import MetaStock® and ASCII intraday databases.

NeatScan Market Scanner

In-built library of scans;
Custom scan criteria;
Advanced filtering.

Comparing Different Versions

There are three different versions of the Tradecision application currently available: Standard, Professional, and Professional Real-Time. The following table summarizes the differences between the different versions.

Feature	Professional	Professional Real-Time
Data Manager	X	X
Charting & Drawing tools	X	X
Technical Indicators	X	X
Analytical Studies	X	X
Custom Time Series	X	X
Elliott Wave Analysis	X	X
Neural Networks	X	X
Improvian Language	X	X
Strategy Builder & System Backtesting	X	X
Function Builder	X	X
DLL Manager	X	X
Advanced Money Management	X	X
Free daily data from MSN and Yahoo	X	X
Reads MetaStock, CSI, and ASCII files	X	X
Custom Indicators & Custom Studies	X	X
Alert Builder	X	X
Neural models and strategy optimization with GA	X	X
Streams IQfeed, eSignal, IB, Forex.com real time data		X

Tradecision Professional Edition is designed for professional traders who use their own indicators and have previously built multi-input/multi-parameter trading systems where fast and efficient optimization with genetic algorithms was required.

Tradecision Professional Real-Time is aimed to provide intraday traders with real-time analytics, needed to make profitable trading decisions.

Ten Unique Advantages

1. A Highly Successful Combination of Technical Analysis and Neural Networks

As well as giving you a set of proven technical analysis capabilities, such as Drawing tools, Analytical Studies, Indicators, Strategies and many others, Tradecision will allow you to harness the immense power of a state-of-the-art artificial neural network for making profitable trading decisions. The neural network will give you a unique opportunity to see such important hidden trends and price patterns that cannot possibly be discerned in charts by the human eye.

2. The AI Technologies Have Been Chosen by Leaders

Throughout its history, Alyuda Research has been producing top-notch neural network software for traders, researchers and forecasters. Alyuda's products have become the software of choice for such world-renowned companies and organizations, as Reuters, Boeing, Citibank, J.P. Morgan Chase & Co., Pfizer, Bayer, Stanford University, and many others.

3. Wizard-Based Trading System Development

Tradecision can perform a realistic trading simulation and inform you about the performance of your trading ideas. You can use the following strategy development and testing tools: Strategy Builder, Improvian Language, Indicator Builder, Alert Builder, Study Builder, Custom Time Series, Optimization Wizard, and Simulations Manager, which provides portfolio testing and detailed reporting capabilities.

4. Practical Technical Analysis with a Collection of Highly Accurate Turnkey Tools

When traders are consistent in their chart work and the price action analysis, made by them is accurate, profitable trade decisions will be made by them on a regular basis. As well as enabling you to select the style of your charts, Tradecision allows using auto trends, drawing tools, Elliott wave, Fibonacci, Gann, Pitchforks, technical indicators, and many other tools.

5. A Simple-to-Use Application Powered by Cutting-Edge Technologies

You don't have to possess a mathematical or artificial intelligence background to make the latest AI achievements work for you and bring you a profit. The fully automated neural networks allow you to use advanced technologies to create a profitable trading strategy and determine the most opportune time to buy and sell securities.

6. Quick Strategy Optimization Using Genetic Algorithms

You can reduce the time required for the optimization of your trading rules and indicators by using fast Genetic Algorithms. At the same time, any over-optimization is automatically prevented by the Alyuda-developed intelligent algorithms.

7. A Great Opportunity to Discipline Your Trading Approach by Using an Innovative Money Management Editor

By using Tradecision's advanced point-and-click Money Management Editor to apply the most well-know position size, stop-loss, trailing stop and profit target rules, you will be able to test your trading ideas, develop winning trading strategies and keep your risks in check to achieve consistent returns.

8. Creative and Interactive Atmosphere - Your Work Can Be Easily Imported and Exported

Custom indicators, custom studies, trading systems and neural models, created by you, can be easily imported, exported and sent to your partners by email. The number and diversity of the ideas that can be implemented by you using the application are virtually unlimited. You can implement as many as you can come up with.

9. Assistance to Professionals – Trade with Peace of Mind

Tradecision does not provide any Holy Grail trading systems and is not a "system" or predefined trading strategy that will make money for you. It is a powerful tool that helps you analyze the market, maximize your profits, and further develop your personal trading style, skills and approach. There is hardly ever anything more regrettable than lost opportunities. Tradecision will help you not to lose yours, and see new ones.

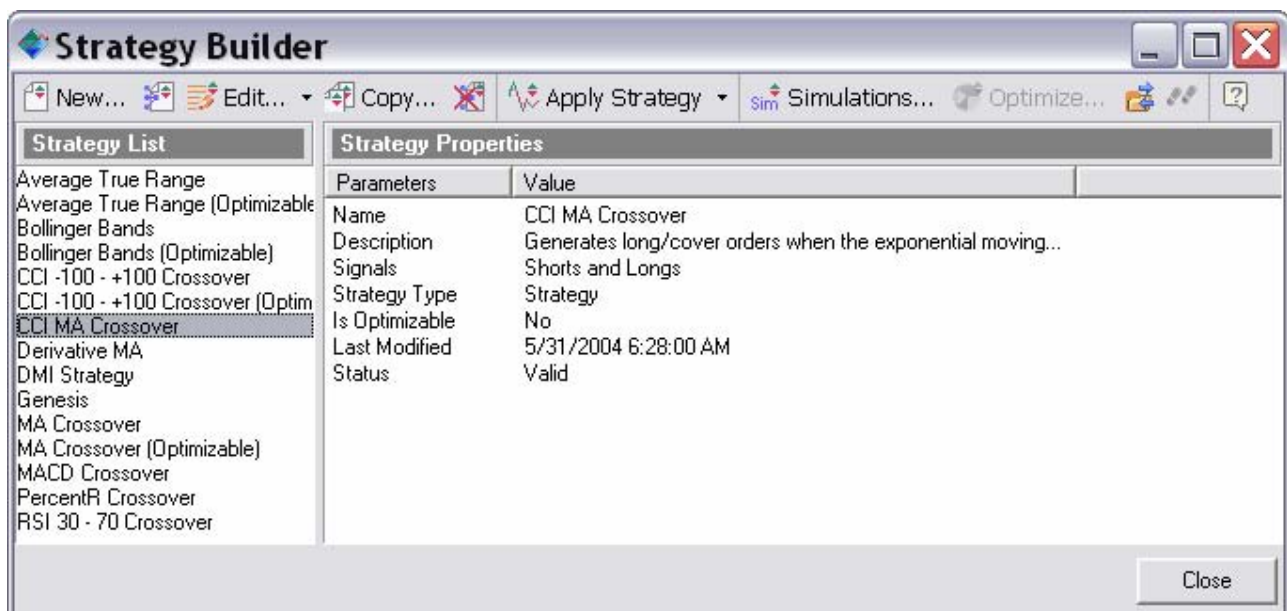
10. Aspiration for Excellence

Taking into consideration the needs of active and professional traders, each new release of Tradecision includes a set of improved tools, as well as improvements on the application's usability and speed of the system's performance. You are always welcome to contact the Tradecision support team to make a suggestion or comment about the software's functionality, its improvement or addition of new features. Not only do we do our best to expand and enhance the capabilities of our software as much as possible, but we are also totally committed to making it the best professional trading software in the market.

Exploring Key Features

Trading Systems

To define the entry/exit conditions, you can use the Improvian language, offering more than 140 built-in functions, as well as the Improvian Editor, designed to facilitate your rule creation process. If you are new to strategy development, you can start with any of the 10 predefined strategies, supplied with Tradecision. All of them are based on well-known trading ideas and can (or even should) be improved to suit your needs.



When your strategy is designed, you need to apply it to historical data to find out whether you would have made a profit if you had traded based on your strategy. The future behavior and profitability of your strategy will be different from those used in the past, but the past performance will give you a good idea about what is likely to happen in the future.

Money Management

Taking the right approach to money management never results in losing one's account. With TradeDecision's powerful money management capabilities, this is the only approach you can take.

The screenshot shows the 'Money Management Editor' dialog box with the following settings:

- General** tab selected.
- Initial Account Size (\$) : 100000
- Increase account to meet position size requirements
- Minimum lot size (units) : 1
- Margin : 0 \$ per unit
- Separate Rules
- Separate stop and profit target rules for longs and shorts
- Commission**:
 - 0 US\$ per unit
 - 0 US\$ per transaction
 - 0 % per transaction
- Slippage**:
 - 0 US\$ per transaction
 - 0 % per transaction

The most popular money management rules are predefined and easily accessible through an advanced point-and-click editor. The editor enables the following types of money-management operations:

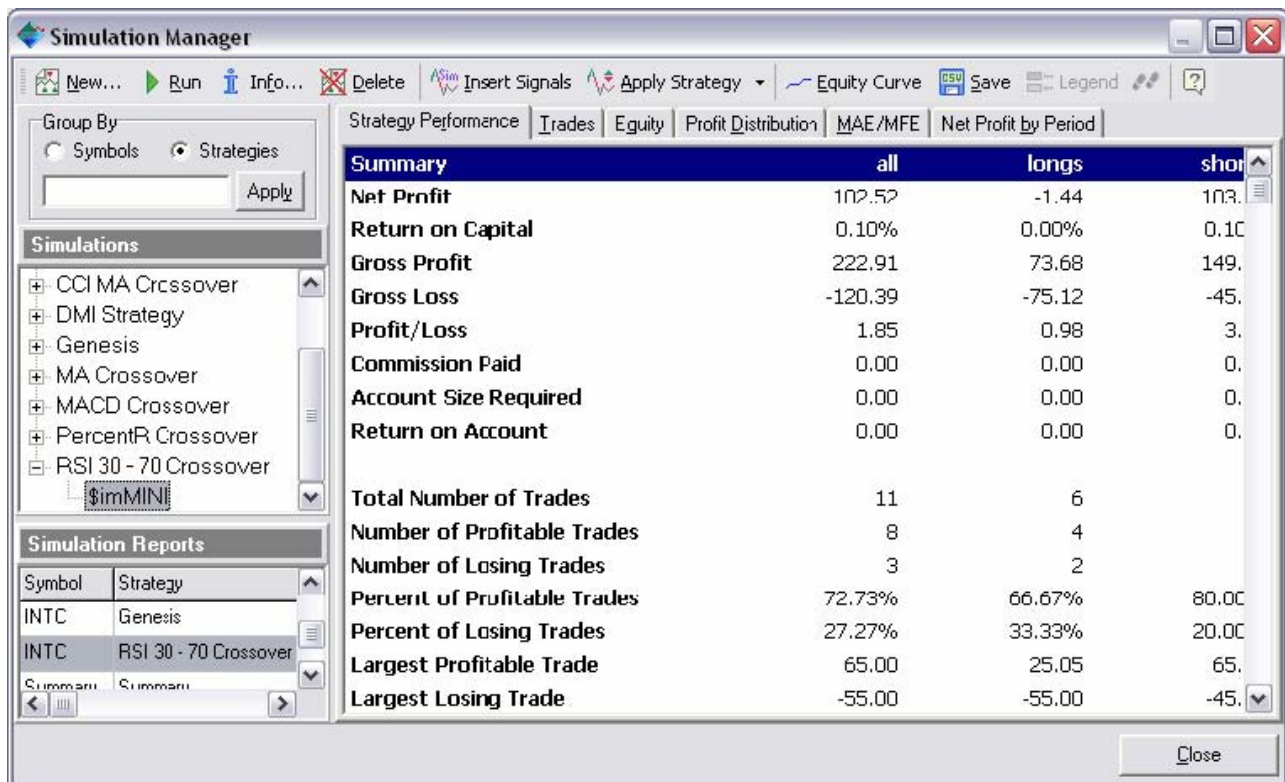
- Automatic calculation of the position size using Optimal F, Kelly, Fixed Fractional Trades and William formulas;
- Easy application of several stop-loss rules with just a couple of clicks;
- Easy definition of the trailing stop rule as a combination of predefined conditions;
- The system also supports using a predefined Profit Target and defining a custom Position size formula.

Strategy Backtesting

TradeDecision introduces an entire rigorous and sound methodology of evaluating the robustness of your trading system.

Simulations Manager allows you to realistically simulate your strategy on one or several stocks at once. Once the strategy is simulated, you can analyze your strategy using the buy/sell signals placed on a chart. You can also analyze the Strategy Performance Report that provides you with detailed information on the strategy's profitability, risk, time analysis and more.

Simulation Manager



The screenshot shows the Simulation Manager window with the 'Strategy Performance' tab selected. The report is for the 'Genesis' strategy on the symbol 'INTC'. The data is summarized in the following table:

Summary	all	longs	shorts
Net Profit	102.52	-1.44	103.96
Return on Capital	0.10%	0.00%	0.10%
Gross Profit	222.91	73.68	149.23
Gross Loss	-120.39	-75.12	-45.27
Profit/Loss	1.85	0.98	3.00
Commission Paid	0.00	0.00	0.00
Account Size Required	0.00	0.00	0.00
Return on Account	0.00	0.00	0.00
Total Number of Trades	11	6	5
Number of Profitable Trades	8	4	4
Number of Losing Trades	3	2	1
Percent of Profitable Trades	72.73%	66.67%	80.00%
Percent of Losing Trades	27.27%	33.33%	20.00%
Largest Profitable Trade	65.00	25.05	65.00
Largest Losing Trade	-55.00	-55.00	-45.00

Efficient Strategy Analysis

Strategy analysis is a vital stage of the strategy development process. When you insert your strategy into an active chart, a new simulation is automatically created and all performance reports are generated and stored in the Simulation Manager. This is the fastest way to simulate and analyze a strategy.

Identifying Your Advantages

Tradecision provides advanced simulation capabilities, specifically designed to help professional traders easily identify the advantages and disadvantages of a strategy.

With the New Simulation wizard, you can concurrently simulate one strategy with different symbols. Moreover, you can back-test several strategies with one symbol within one run of just one simulation. In both cases, you can easily compare the results. All this means that your strategy analysis will be a lot more efficient.

A Customizable Language for Rule-Based Trading

Improvian is a full-featured programming language. It gives you a variety of opportunities to implement your own trading ideas. For example, you can design a trading system or improve an existing study or indicator.

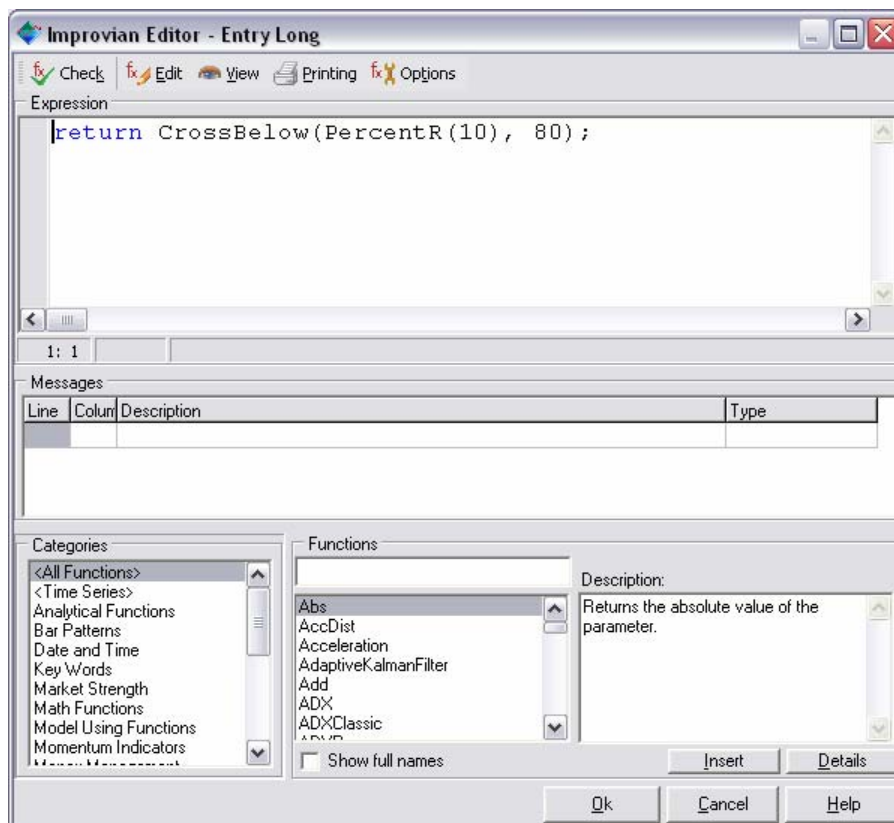
Tradecision makes it easy to limit losses by coding trading rules using the powerful features of Improvian. It is possible to create custom functions, call DLL functions, and import trading techniques from EasyLanguage and MetaStock. The new language allows traders to use variables, inputs and skip words while creating advanced trading techniques.

With Improvian, you can create **analysis techniques** that can help you make a **profitable trading decision**. Inventing your own techniques isn't easy. First of all, you need an idea. Then you need to write that idea down. Improvian will allow you to write down any kind of idea you can only come up with, and Tradecision will inform you about how well your trading idea performs.

With Improvian you can create:

- Trading system rules (by using the Strategy Builder capability);
- Inputs for Neural Models;
- Indicators (by using the Indicator Builder capability);
- Custom Functions;
- Alerts (by using the Alert Builder capability);
- Studies (by using the Study Builder capability);
- Custom scans (by using NeatScan market scanner).

Improvian Editor is a special word processor, allowing you to write your own formulas in the Improvian language.



NeatScan Market Scanner

NeatScan is a multi-symbol scanning and analyzing program that gives you the ability to locate money-making opportunities. As you know, a scanner's main task is finding stocks that meet the characteristics you are interested in. With the help of NeatScan, you will be able to examine hundreds of symbols, stored in Data Manager, using a set of diverse criteria, defined by you.

Using NeatScan, you will be able to:

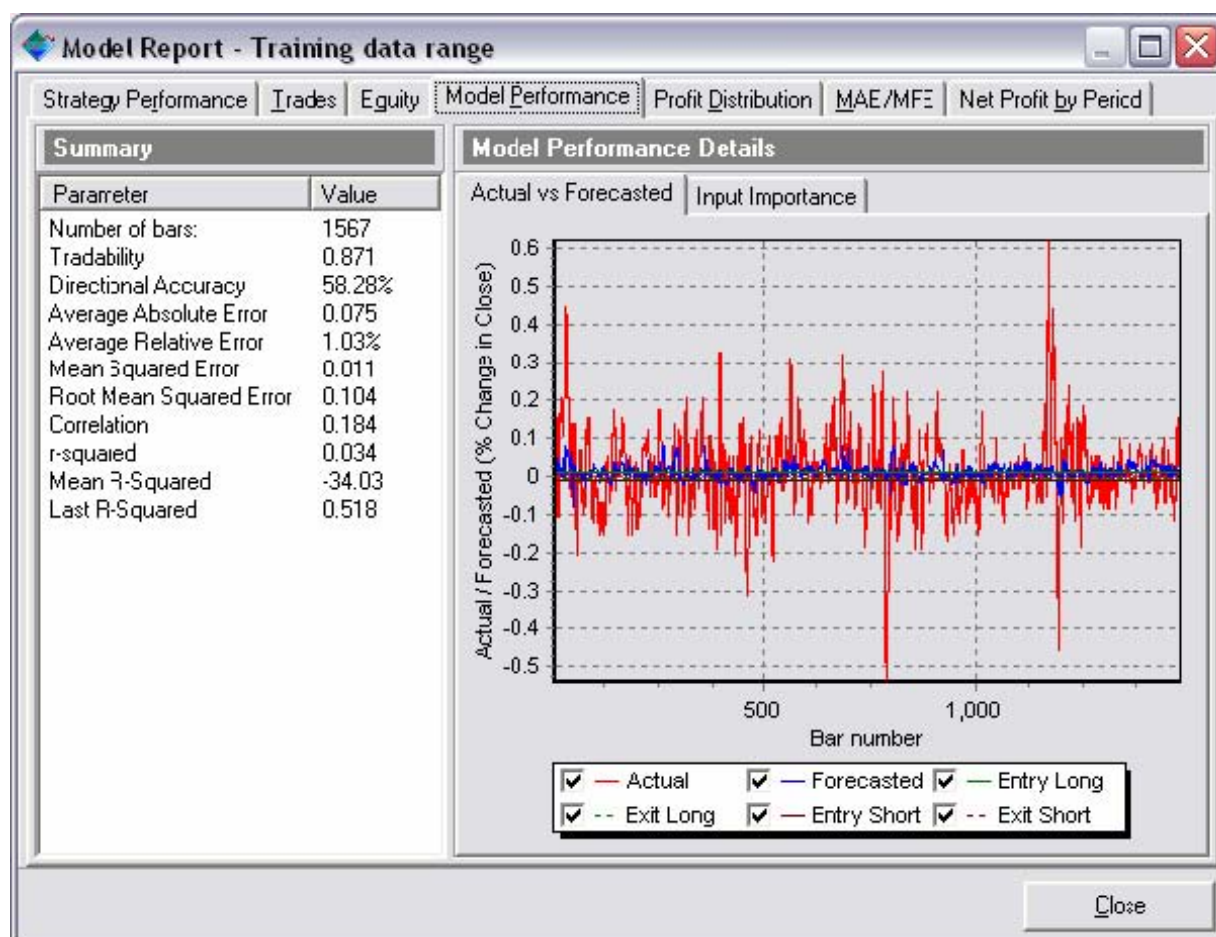
- Observe a multitude of symbols and/or intervals, arranged and ranked in any order that you prefer;
- Automatically scan your symbol portfolio in real time to obtain easy-to-read reports on the results of each search;
- View the market activity in real time, arranged by volume, amount, and percentage gainers and losers, as well as according to other multiple criteria.
- Customize your searches based on price, volume and market cap, and remove those stocks that do not meet your trading needs.
- Gain easy access to TradeDecision charts to find out more about each possible trading opportunity.

Neural Model Builder

Neural networks are a relatively new and the most powerful method of technical analysis, capable of providing an evaluation of the current market situation, precise enough to enable the trader to predict, to some extent, the market developments that will take place in the near future.

The Tradecision functionality allows modeling security prices using neural networks.

A neural network, trained for a certain security, can be used to generate a trading strategy based on model forecasts. This neuro-strategy can be tested, optimized, and used to generate buy/sell signals.



Tradecision uses very adaptable and precise constructive neural networks to create neural models. Constructive nets grow and train themselves during iterative price movement analysis.

Network construction, training, testing and parameters selection are fully automated. All the scientific details are hidden. You do not have to have any knowledge of neural networks to successfully create and train a neural network.

Prevention of over-optimization is automatically maintained with the help of special algorithms, which, just like many other algorithms, used in the application's functionality, have been invented and developed by Alyuda as a result of years of research into the application of AI in trading and financial forecasting.

Special Techniques

Alyuda Research believes that the trading world, as a highly dynamic area of human activity, has many aspects that have to be identified, analyzed, and transformed into knowledge. To translate this knowledge into practical tools and solutions, to forestall tendencies, Alyuda has been conducting its comprehensive research.

The Research & Development Team is constantly following all important trading techniques- and trends-related developments, selecting the cream-of-the-crop to ensure our products' superb performance in today's markets:

- Ingenious MA;
- Custom Bars;
- Jurik Indicators;
- Hurst Exponent;
- Multi-Data Strategies.

Advanced Charting and Indicators

Tradecision's functionality and the system's user-friendly GUI allow performing chart data-related operations easily and quickly. The chart data can be readily analyzed, edited, deleted, zoomed in on, and saved into an ASCII file or as a picture. The Chart Settings dialog box allows customizing each chart and sub-chart with studies, lines, indicators, text, colors, bar spacing, chart grid setup, and time frames.

Tradecision allows using more than 100 most popular technical indicators.

Analytical Studies

The following analytical studies are available with a single-click:

Auto-trends

The Auto-trends tool is used to automatically draw trend lines over the chart. The tool provides automatic trend line identification for minor, intermediate, and major trends.

Pivots

This study identifies and marks a turning point in the trend on a chart. Tradecision identifies Minor, Intermediate, and Major turning points.

Single Day Patterns

This kind of patterns is used for the identification of single-bar patterns, such as runaway and thrust days.

Reversal Patterns

Automatic identification of reversal patterns, such as V-top, double-top, head and shoulders.

Elliott Wave Analysis

An exceptional tool for those traders, who have used Elliott waves to make trading decisions. The tool provides automatic identification of a-b-c corrections.

Fibonacci Clusters

The tool is used to calculate price levels using pivots and Fibonacci retracements. It allows you to determine the probability of a trend reversal for each price level.

Noise Removal

The Noise Removal tool allows you to create and analyze the smoothed curve of a price chart.

About Alyuda Research



Alyuda Research is dedicated to developing cutting-edge trading and forecasting software solutions.

The company was founded in 2001 to rapidly become a global market leader, offering a unique range of internationally acclaimed trading software products under the Tradecision trademark.

These products are based on the company's own outstanding scientific achievements in the field of neural network technologies, and represent the best in what has globally been achieved in this area.

Alyuda's revolutionary products have long proven indispensable in supporting the decision-making process for a number of world-renowned companies and organizations, such as Boeing Satellite Systems, Reuters Financial Software, Citibank, J.P. Morgan Chase & Co., Pfizer, Bayer Polymers, Stanford University, and many others.

Alyuda Research, Inc. 864 Terrace Dr, Los Altos, CA 94024 USA

Phone: (510) 931-7808

Fax: (510) 279 5649

E-mail

sales@tradecision.com

Useful Links

Online Product Videos

<http://tradecision.com/product/videos.htm>

Insight Center

http://tradecision.com/support/insight_center.htm

Knowledgebase

<http://tradecision.com/support/knowledgebase.htm>

Discussion Boards

<http://tradecision.com/smf/>

Resellers

<http://tradecision.com/purchase/resellers.htm>