



PANNASOFT INGENUITY™

AAA™ Component
making things work intelligently!

Artificial neural networks resembled the human nervous system, with algorithms consisting of weighted interconnecting processing units (like neural map of the human brain). To address a particular problem using ANNs, the interrelated connections are tuned and the value of weights between units is adjusted. ANNs are tried and tested artificial intelligence technology for superior pattern recognition. Pattern recognition offers benefits of solving practical problems in the business, medical and engineering world.

Pannasoftware Ingenuity™

Proper data preprocessing, architecture selection and network training are required to reap the best from ANNs. The arduous task to optimized ANNs is alleviated with Pannasoftware Ingenuity™, the ANNs engine that is simplified for use. Certain parameters are optimally set while others can be tuned. Users will be guided by a comprehensive documentation that is accompanied with Pannasoftware Ingenuity™. The aim is to let users obtained the best from ANNs without the need to acquire the knowledge of a rocket scientist.

Pannasoftware Ingenuity™ is a component based on hybrid artificial neural networks (ANNs) technology, with methods and algorithms specially configured and evaluated by Pannasoftware's experts for optimized application on neural network-based solutions. Pannasoftware Ingenuity™ provides the best-of-breed artificial neural networks technology to be infused into real world software products to achieve optimal solutions to specific problems, yielding numerous returns in terms of best results, enhanced value and competitive edge.

Features

Automated/Manual Parameters Selection

Pannasoftware Ingenuity™ gives users the flexibility to automatically or manually adjust the network parameters for analyzing data.

Rule Extraction

Pannasoftware Ingenuity™ provides rule explanation capability to gain a wider degree of user acceptance on the results and to let user understand the potential and ability of the trained engine in handling classification problems.

Pruning Strategy

Pruning strategy enables user to remove low confidence and unimportant prototypes (knowledge) from the system to reduce complexity and network size.

Retrieve Old Knowledge

Pannasoftware Ingenuity™ enables user to retrieve old prototypes from the database and combine them with new input samples to form new prototypes.

Multiple Classifier System

Multiple Classifier Systems enable Pannasoftware Ingenuity™ to produce better results and higher accuracy in decision making using a voting system mechanism.

Multiple Jobs

Pannasoft Ingenuity™ can accommodate different category of data sets (e.g. data on credit card spending, health diagnosis, manufacturing operation and etc) in one database.

Advantages

1. Capable of self-organizing to an arbitrary sequence of sample patterns in stationary as well as non-stationary environments.
2. Ability to continuously learn new patterns without losing previously learned information.
3. Revelation of embedded rule set in the network can be accomplished in linguistic format that users can clearly comprehend.
4. Multiple Classifier Systems enable Pannasoft Ingenuity™ to produce better results for higher accuracy in decision making.

Optimizing Businesses
Through Intelligence





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