Data Driven, Intelligent Modeling

An Alternative to the Traditional Mathematical Modeling of E&P Related Processes

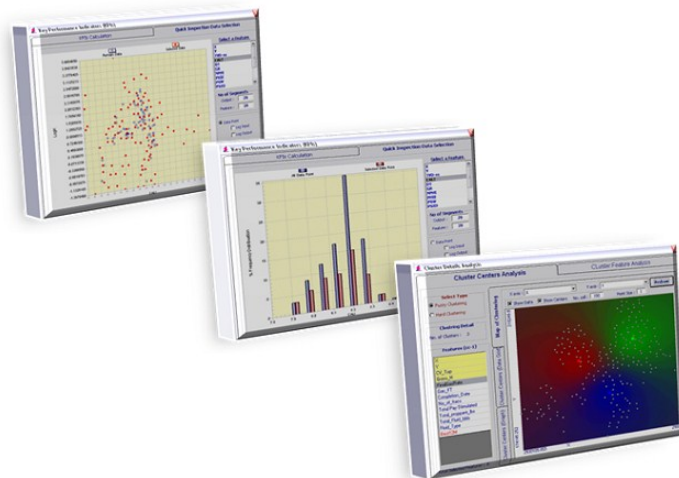## Building Predictive Models Based on Histori-

Intelligent Solutions, Inc.

Industry's Premier AI&DM-Based Modeling Software Application Merging State of the Art Artificial Neural Networks, Genetic Optimization & Fuzzy Logic

IDEA is a complete software application that forms the main engine of all ISI products. It embodies 20 years of active research and development in the art and science of application of Artificial Intelligence & Data Mining in the Exploration and Production Industry.

It has been successfully used to develop data driven predictive models in drilling, completion, production, reservoir engineering and other aspects of the oil and gas Industry.

IDEA includes many proprietary technologies that make successful data driven modeling possible. These technologies include:
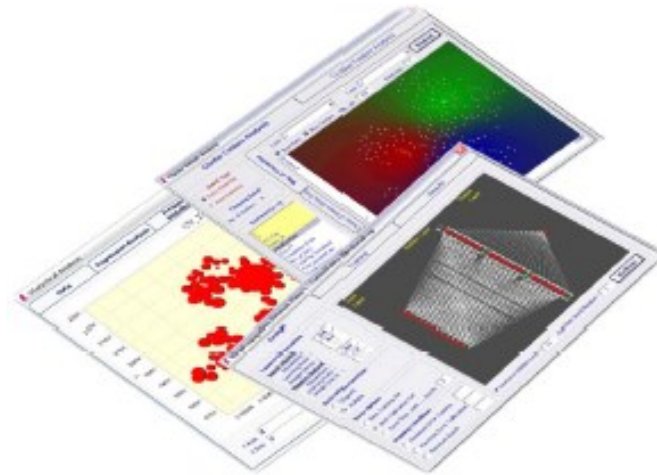
- **Intelligent Patching of Data Files**
- **Key Performance Indicators (KPI)**
- **KPI Behavior**
- **Optimized Clustering (Enhanced SOM)**
- **Reinforced Cluster Analysis**
- **Intelligent Data Partitioning**
- **Preserving Dependencies**

Key Features of Intelligent Data Evaluation and Analysis (IDEA)

Proprietary Algorithms:

ISI's competitive advantage includes a series of algorithms that guarantees successful data driven, intelligent modeling.
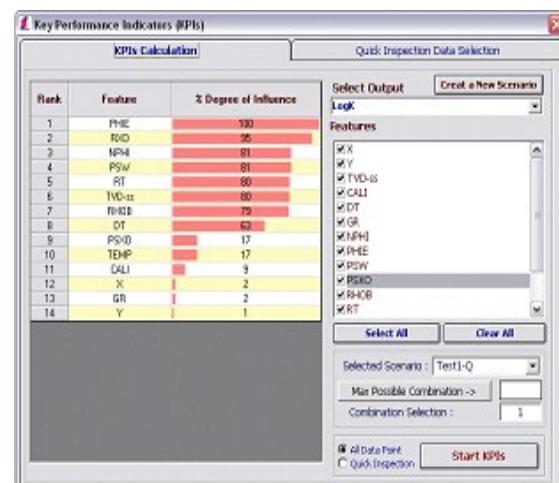

AI&DM:

IDEA is a modeling workflow that walks you through mining your data and building predictive models using a combination of artificial neural networks, genetic optimization and fuzzy logic.

Comprehensive Post Processing Module:

To get the most out of your predictive model, IDEA provides a comprehensive post processing module for analysis of the model. This includes single and multi-variant sensitivity analysis as well as Monte Carlo simulation to quantify the uncertainties associated with the data used as input in your model.

Maintaining Excellence in the Art and Science of
Artificial Intelligence & Data Mining (AI&DM)
as Applied to the
Exploration & Production Industry

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