**DATASCAPE Advantages**

- A powerful new level of modeling sophistication in an easy to use package
- Visualization tools improve your understanding of the data and model
- Requires no hypothesis about the mathematical form of the solution
- Provides valuable insight by ranking the inputs that drive the model
- Identifies conflicting or bad data

**Applications**

**DATASCAPE has been applied to an extensive range of applications including:**

- Prognostic Health Management
- Developing and Embedding Soft Sensors
- Quality Control Optimization
- Hazardous Material Exposure Modeling
- Customer Usage / Demand Modeling
- Efficient Prediction of Chemical Reactions
- Real-Time Process Control
- Service Life Modeling
- Spare Part Management
- Simulation Acceleration
- Lookup Table Replacement
- Complex Fault Detection
- Cost / Risk Modeling
- Production Rate Studies
- Maximizing Process Yield
- Finding Key Process Drivers
- Mining Data for Process Insight
- System Performance Modeling
- Price Justification Analysis
- Modeling Software Development Costs

**System Requirements**

- Intel Pentium or Compatible Processor
- Windows NT, 2000 or XP
- Open GL Graphics Support
- 256 MB RAM

**Contact TMP to learn how **

**DATASCAPE**

*can put your data to work for you...*

(817) 820-0520
datascape@tmpinc.com
www.tmpinc.com

Third Millennium Productions
**DATASCAPE Overview**

Quickly construct models that capture the complex behavior of your process data.

**DATASCAPE** develops an accurate predictive model by learning from the relationships it finds hidden in your numerical data.

Once the model is built, you can use it to:
- Optimize or control a process
- Make predictions based on historical data
- Gain valuable insight
- Replace a slow simulation with a fast and accurate model

**DATASCAPE** is ideal for applications in areas where even experts could only guess at a starting point for model development.

**The DATASCAPE Process**

**Acquired Data** - Sensor Logs, Process Metrics, Custom Behavior, Simulation Output, etc.

**Training Data File**

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**Visualization**

**Input Ranking**

**Quality of Fit Metrics**

**Model Validation**

**Create Custom Applications**

**Embed in Real-Time Systems**

**Failure Prediction**

**Process Optimization**

**Process Control**

**Soft Sensor Design**

**A Revolutionary Method**

**DATASCAPE** derives its power from a hybrid of fuzzy logic, non-linear regression and numerical optimization. This novel method frequently outperforms other surrogate modeling techniques including neural networks.

**History**

**DATASCAPE** is based on a modeling approach invented by mathematicians and engineers to meet the demanding requirements for simulation and process control in the aerospace industry.

**Proven Performance**

Lockheed Martin has been reaping the benefits of using **DATASCAPE** to solve a wide range of challenging problems throughout the corporation, saving time and money.

In a single application, this technology has already saved the US Air Force over $36 million.