



OPTIMALIS

data, made simple

Key points:

AI
SURROGATE MODEL

USER-FRIENDLY
INTERFACE

PREDICTIVE
ANALYSIS

FAST &
EFFICIENT
DATA
UNDERSTANDING

Driving AI Innovation Across Engineering, Production, and Vehicle Systems

The future success of automotive OEMs will rely heavily on their ability to integrate artificial intelligence (AI) across all domains—from engineering and production to the software-defined vehicle. **OPTIMALIS®** is TWT's powerful and flexible AI framework designed to accelerate this transformation.

Accelerated Engineering Through AI-Surrogates

Time-consuming simulations in areas such as fluid dynamics, thermal behavior, or structural analysis can be dramatically speed up using AI-based surrogate models. **OPTIMALIS®** enables real-time or near real-time evaluation of complex configurations, making optimal design decisions achievable at unprecedented speed.

Unlocking the Value of Automotive Data

OEMs generate massive datasets from development, production, and fleet operations. **OPTIMALIS®** helps transform this raw data into insight—enabling anomaly detection, predictive maintenance, and AI-based data correction. It empowers users to identify problems early, optimize operations, and improve product quality.

Predictive Power for Smarter Decisions

OPTIMALIS® goes beyond analysis by forecasting future behavior, such as driving patterns or vehicle energy usage. These predictions support smarter design choices and efficient resource planning throughout the vehicle lifecycle.

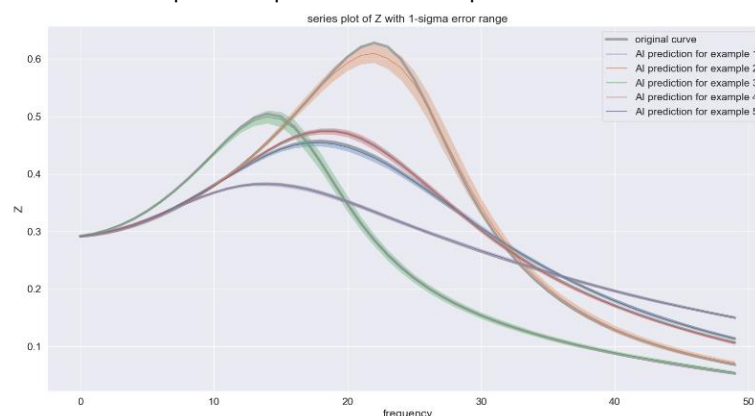
Simple, Scalable, and Smart

OPTIMALIS® features a standardized data interface, automatic adaptation to diverse data types, and minimal setup effort. It's intuitive to use, highly autonomous, and scales from proof-of-concept to enterprise-wide deployment.

OPTIMALIS® is your gateway to unlocking the full potential of AI in the automotive domain—bringing speed, intelligence, and clarity to every stage of product development and operation.

Fast AI-Surrogate Model with AI-Uncertainty Quantification

Example: NVH-spectrum for various parameters of the vehicle's suspension-system.



🕒 **98%**

Reduction of
computing time

📊 **90%**

Less Simulations
→ **SUSTAINABILITY**

KEY ADVANTAGES

Fast AI-surrogate models for simulation acceleration
AI-driven anomaly detection and predictive analytics
Standardized interfaces for easy integration
Adaptive, low-effort setup for rapid deployment
Suitable across simulation, testing, production, and fleet analysis

CONTACT PERSONS

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