Real-time design performance
with AI powered modeling

Foster Design Innovation

nvision

AI for design

Scan
Simulation Data

Input & Output file Parsers

Scan and Import simulation data from the most widely used CAD/CAE tools

Input & Output Variables Selection

Select among scalar, field and time dependent variables for your study

Create AI
Surrogate Models

Model Training

Use the selected training dataset and the variables definition to train a new model

Model Building

Build the model based on the selected data with our AI-based modeling algorithms

Model Validation

Evaluate the quality of the new model based on relevant metrics

Predict & Evaluate
Design Performance

Result Prediction

Gain insights on how design parameters affect the performance

Visualization

Interact with the 3D rendered results, explore different designs and refine your ideas

Capitalize knowledge

Output File Unparsers

Export results to native CAD/CAE tools file format

Standardized model format

Export and reuse the surrogate model in a standard industry format

Recycle design knowledge

Perform design optimization studies using nvision model in an Optimus workflow

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nvision
AI for design

nvision is an open, solver-agnostic, and data-based modelling tool that enables simulation engineers, designers, and product owners to reduce design time. nvision leverages existing knowledge from simulation data and performs real-time what-if analysis to speed up product development while saving time and resources.

Capture & share knowledge

Unveil trustworthy design insights

Spontaneous data-driven decision making

Real-time design

performance

Save time

Leverage knowledge from existing simulation database

Easy access to simulation data

Push design boundaries

Reduce Complexity

Enable shorter design cycles

Large, high-fidelity nonlinear models can take hours or even days to simulate. System analysis and design can require numerous simulations, presenting a significant computational challenge.

Innovate & Push your design boundaries

Many complex R&D projects require experience with various CAE tools. Often this is blocking product teams and slows down innovation.

Recycle Organization's Knowledge

Existing simulation results from previous design cycles contain significant knowledge that is often not leveraged for future innovative designs. It slows down the teams' efficiency and creates repetitive tasks.

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Established in 2003, Noesis Solutions, a trusted digital engineering innovation partner, has empowered customers adopt a transformational strategy that resolves their toughest multi-disciplinary engineering challenges of today. Our continuously evolving product portfolio, state-of-the-art technology, and unmatched customer services enable customers transform the way they build their products in a much faster and an efficient manner.

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