REVOLUTION in Simulation

**News & Updates**

**December | 2024**

# Cutting Edge Simulation

Rev-Sim is the industry's vendor-agnostic information source for cutting-edge engineering simulation. On this free online community, you'll have access to information and reference materials to help plan, implement, and maximize your next-generation simulation usage and investment.

Learn more at **rev-sim.org**

## WHAT'S NEWs

**Blog**
**Augment MBSE with AI to Accelerate Time-to-Market**

**Success Story**
**TO.TEM S.R.L. Streamlines Development, Ensures Product Safety, and Enhances Collaboration**

**e-Book**
**Combining AI with Simulation for Next Level Innovation**

**Article**
**Generative Engineering and the Role of Simulation**

**In the News**
**Beta CAE Systems Announces v25.0.0 of its Software Suite**

**Siemens strengthens leadership in industrial software and AI with acquisition of Altair Engineering**

**PTC Partners with Microsoft and Volkswagen**

**Ansys Boosts CFD Simulation with NVIDIA Superchips**

**Webinar Series on AI/ML for Product Optimization**

## Episode 1: AI/ML in Optimization and Design Exploration at General Motors

January 15, 2025
11:00 AM (Eastern US)

By examining lessons learned, strategic investments, and future plans, this webinar will show how AI accelerates and enhances optimization, ensuring designs meet and exceed standards while driving innovation and fast decision-making in

**Optimad Engineering Acquired by ESTECO for Enhanced CFI AI**

product engineering.

**register here**

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## AI/ML in Simulation Learning Program:

### Curriculum for Beginners, Advanced Resources for Experts

Whether you're exploring AI in simulation, are in the early implementation stages, or wish to more fully leverage its advanced capabilities, you'll find this new AI in Simulation Learning Program useful. The curriculum is curated by experts, offering best practices, expert guidance, and a community discussion forum to ask questions and share insights.

**find it here**

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## Rev-Sim Interview: PTC's Todd Kraft

Watch this short video interview with PTC Product Manager, Todd Kraft to learn more about the evolution of PTC's simulation portfolio and how the company is putting engineering simulation into the hands of more users.

**watch it here**

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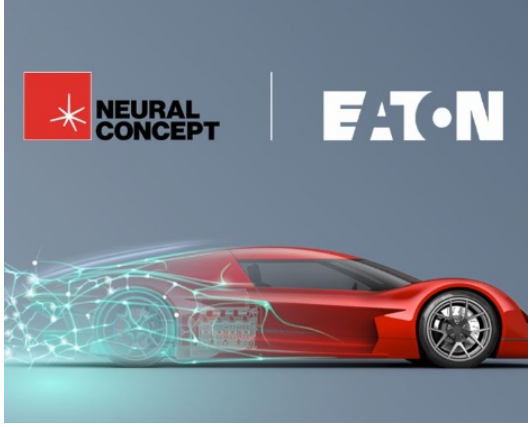
## Featured Papers

### Make an Engineering Impact on Vehicle Electrification with the Digital Twin

Seamless integration of testing and simulation methods helps frontload the testing and validation of electric vehicles designs. This paper discusses how coupling simulation with physical testing methods at various stages of development permits advanced validation of the system even before it exists, accelerates innovation, and provides a competitive edge.

**get the paper**




### Enhancing Engineering Efficiency and Innovation: A Collaboration Between Neural Concept and Eaton

This paper underscores the potential to accelerate AI for engineering by offering faster, more accurate, and AI-driven engineering results.

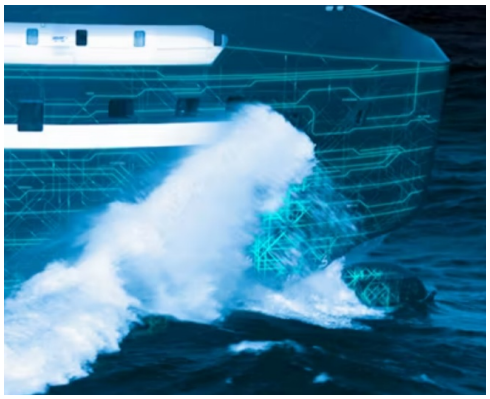
Results include a 30% improvement in pressure drop and 10% weight reduction.

**get the paper**

## Featured Success Stories

### CALOI Slashes Product Development Costs by 50%

Cycling products company adds 3DEXPERIENCE Works SIMULIA solutions to its SOLIDWORKS implementation and cuts errors, rework, and scrap in half, along with shortening time to market by 25%.



### Solving Critical Problems with Cloud-Based CFD

DNV Maritime Advisory supports its customers in mobilizing the full potential of operations throughout an asset's life cycle. The value is in leveraging a solution that combines accessibility, flexibility and scalability.

read it here

read it here

## The Growing Impact of AI/ML on Simulation

In this video interview, Digital Engineering 24/7 Sr. Editor, Kenneth Wong sits down with CIMdata's Sandeepak Natu discuss the emerging role of AI in simulation. Sandeepak is Co-Director of CIMdata's Simulation-Driven Systems Development (SDSD) Practice.

**watch it here**

## Partners Spotlight

Novus Nexus offers smarter solutions to automate simulation processes easily and reliably. Our tools work seamlessly with various commercial and open-source CAD, CFD and FEA solvers to naturally capture simulation know-how for consistent application of best practices, enable CAD designers to run dependable simulations, and optimize the use of simulation resources.

Simulating better with us, these advantages culminate in the ability to make correct design decisions faster, streamline development processes and so increase innovation and throughput.

Committed to our mission to enable engineers to deliver results of high value, BETA CAE Systems continues to offer state-of-the-art, high-performance software and best-in-class services to the industry around the world.

Our simulation solutions unleash low-risk and high Return on Innovation Investment. We first established our reputation in the Automotive sector and now we are proud of the deployment of our software also in the Aerospace, Defense, Biomechanics, Electronics, Energy and other Industries.

website

website

## Upcoming Events

**AI/ML in Optimization and Design Exploration at General Motors**
January 15

**3DEXPERIENCE World**
February 23-26

**3DEXPEREINCE FORUM Americas**
February 25

**find more here**

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