REVOLUTION in Simulation

News & Updates

August | 2025

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**

AI/ML in Simulation Learning Program:

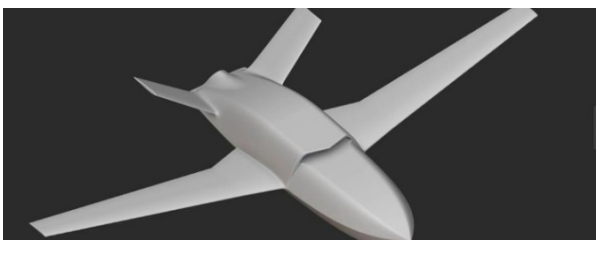
Curriculum for Beginners, Advanced Resources for Experts

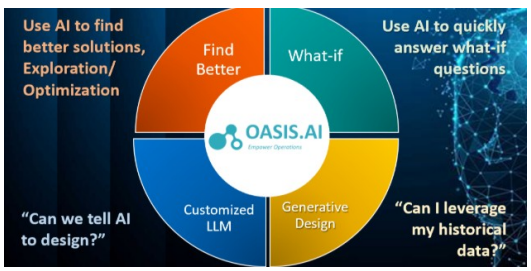
Whether you're exploring AI in simulation, are in the early implementation stages, or wish to more fully leverage its advanced capabilities, you'll find our AI in Simulation Learning Program useful.

Curriculum is curated by experts, offering best practices, expert guidance, and a community discussion forum to ask questions and share insights.

find it here

Upcoming Webinars





Computational Design - Integrating Implicit Modeling, Meshless Simulation, and Machine Learning for Optimization with Real-World Efficiency

September 9, 2025
11:00 AM (Eastern US)

This webinar introduces a new paradigm in mechanical design optimization that integrates implicit modeling, meshless simulation methods, and machine learning to address these challenges.

Through diverse use cases, we demonstrate how these techniques unlock the practical use of optimization while adhering to project timelines. Attendees will gain insights into the practical deployment of optimization workflows in industrial, fast-paced, multi-disciplinary settings.

register

Introducing OASIS.AI – The Latest AI-based Design Exploration Engine

October 1, 2025
11:00 AM (Eastern US)

This webinar discusses advancements in its AI-based exploration engine, OASIS.AI, which extends traditional optimization paradigms into broader exploration, allowing engineers to evaluate *what if* scenarios and make use of historical data.

This new AI approach efficiently handles highly complex scenarios, leveraging advanced search techniques and small data learning technologies refined over many years. Its robustness and efficiency have been validated across a wide range of benchmark cases, positioning it as a next-generation tool for optimization and exploration, ready to be embedded in OEM software through partnerships with EmpowerOps or directly utilized by end users.

register

What's News?

AI/ML Blog Series

With a focus on engineering simulation and high-performance computing, Dr. Justin Hodges is authoring a blog series to make it less overwhelming for people to keep up with the innovations in AI.

Here is an idea of what you will find:

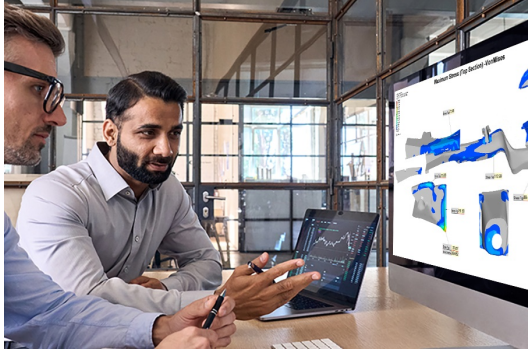
- Literature reviews and technical blogs on specific topics
- Code tutorials without write-up
- Write-ups on important concepts
- Nice discussion and conversation with community members.

find them here

SOLIDWORKS 2026 Preview is Live!

Be among the first to test-drive user-driven enhancements, new capabilities, and quality and performance improvements.

read more



VCollab and Noesis Solutions Team up

id8, a cloud-native collaborative engineering platform by Noesis Solutions, to integrate with VCollab's 3D CAE Visualization Technology.

read more

Our Newest Partner

JuliaHub Joins the Revolution!

JuliaHub empowers scientists and engineers with cutting-edge tools for scientific machine learning (SciML), Digital Twin modeling, and advanced simulations. The product, Dyad, enables high-performance multi-physics modeling, integrating traditional methods with AI-driven approaches to solve complex engineering challenges. The platform product, JuliaHub, is a cloud-based offering that streamlines Julia program development, deployment, and scaling while ensuring enterprise-grade security, governance, and compliance.

find them here

Did you miss it? On-Demand Webinars

Webinar Recording: AI/ML in Optimization and Design Exploration at General Motors

This webinar details how General Motors leverages AI to accelerate and enhance optimization, ensuring that designs meet and exceed standards while driving innovation and fast decision-making in product engineering.

watch it here

Webinar Recording: Ask the Experts... AI/ML in Simulation & Product Development

This panel discussion of industry leaders covers applications and demonstrations for ML in engineering design tasks. It covers examples on how ML can be used in simulation-based optimization projects to greatly accelerate the process.

watch it here

more on-demand webinars

Partners Spotlight

ptc

PTC's Creo offers a comprehensive set of simulation capabilities that serve engineers and designers throughout the product development process.

With this suite of capabilities, you can integrate simulation early and often into your process enabling you to make better design decisions, reducing costs, improving quality and speeding time to market.

learn mnore

Novus Nexus
Simulate better with us

Novus Nexus 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, both human and software. These advantages provide the ability to make correct design decisions faster, streamline development processes and so increase innovation and throughput.

learn more

aras

Aras Simulation Management

SIEMENS

The Siemens Simcenter portfolio uniquely integrates the full breadth of engineering solutions including

application provides a tool-agnostic data model for SPDM solutions that connects data with a PLM-managed Digital Thread and product lifecycle management services. This connects simulation results and simulation experts with mainstream engineering processes enabling cross-domain traceability, collaborative decision-making, and reuse in-context across the product lifecycle.

learn more

system simulation, 3D CAE and CFD, and physical testing, with design exploration and analytics, workflow automation and simulation process and data management.

Simcenter is an integral part of Xcelerator™, a broad integrated portfolio of MCAD, PLM, and EDA solutions and services from Siemens Digital Industries Software.

learn more

And Finally... Upcoming Events

From Equations to Simulation: Modeling Actuators in Julia
August 27

Future-Proof Your Work: Reproducibility for Pharmacometrics Workflows
August 28

Computational Design – Integrating Implicit Modeling, Meshless Simulation, and Machine Learning for Optimization with Real-World Efficiency
September 9

Introducing OASIS.AI – The Latest AI-based Design Exploration Engine
October 1

FLOW 3D Hydro Symposium
October 13-15

Design & Simulation Summit
October 30

find more here

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