REVOLUTION™ in Simulation

News & Updates

Summer | 2023

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**

Editor's Spotlight

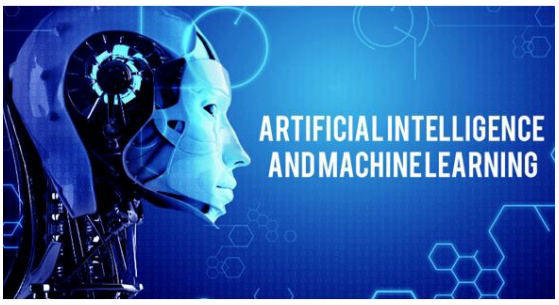
Case Study
Cobra Aero Reimagines the Combustion Engine Cylinder Using Multiphysics Simulation and Field Driven Design

Featured Article
Realtime CFD: The Advent of AI/ML and Operational CFD Digital Twins

On-Demand Webinar
How Democratization Helps GKN Engineers Sleep Better

Paper
Driving ROI with Engineering Simulation Software on HPC Infrastructure

Did you Know?
Rev-Sim has a **jobs board**. Check it out early and often to look for your next career opportunity!



What's Ahead...

Roundtable Discussion: "AI in Simulation"

Your opportunity to interact directly from the industry experts.

Look for details on our website soon!

New Look - Expanded Focus!

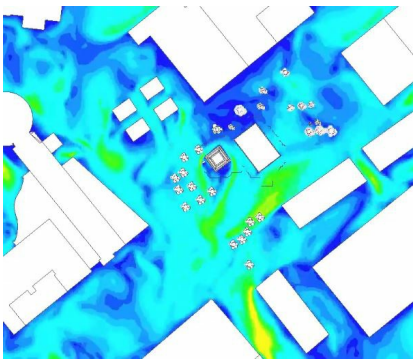
Rev-Sim topics and resources cover the full range of cutting-edge simulation technologies. In addition to past topics, we're expanding our coverage to include exciting new uses of simulation technologies such as **Artificial Intelligence** (AI), **Machine Learning** (ML), **Additive Manufacturing**, and

more.

Digital Twins for Microclimate Analysis

Leaftech has completed 65 digital twin projects representing almost 5 million sq. ft. in built area and includes more than 4,000 building-level devices monitored from energy meters to temperature sensors from building management systems.

read more



Cutting Edge Simulation: Generative Design

Generative design is a broad and holistic design methodology that includes all goal-driven and computational approaches to engineering where software is used to generate geometry based on a set of logical operations and user-defined rules.

In other words, generative design is a set of digital tools that augment your capabilities as an engineer and designer. These tools address the main engineering need to explore efficiently and effectively the entire available design space, enabling you to converge quickly to the best possible solution that meets all design requirements — both technical and non-technical.

learn more

Our Newest Partners!

CIMdata®

For 40 years, CIMdata has provided industrial organizations and providers of technologies and services with world-class knowledge, expertise, and best-practice methods on a broad set of product lifecycle management (PLM) solutions and the digital transformation they enable. CIMdata is an active participant in the Simulation & Analysis community and is the author of the annual Simulation & Analysis Market Analysis Report.

ALTAIR

Altair is a global leader in computational science and artificial intelligence (AI) that provides software and cloud solutions in simulation, high-performance computing (HPC), data analytics, and AI.

Altair enables organizations across all industries to compete more effectively and drive smarter decisions in an increasingly connected world – all while creating a greener, more

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sustainable future.

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Partner Spotlight: Corvid HPC

Corvid HPC is a cloud computing provider with over 15 years of simulation experience solving some of the DoD's toughest challenges. Our engineering team provides one-on-one simulation support to ensure our customers get the most out of high-performance computing. Corvid HPC's user interface is designed to support all scalable engineering simulation codes, tailored for all – from beginners to experts. Corvid HPC leverages our own US-based hardware to provide simple and cost-effective pricing to our customers with no middleman.

website

Events Spotlight

ATCx AI for Engineers

Wednesday July 26

Data science and AI are rapidly becoming necessary technologies for engineering and manufacturing companies to streamline operations and effectively compete. Data-driven manufacturers can optimize product design, manage supply chain risk, reduce downtime, forecast demand, and more. But becoming data-driven requires bridging the gap between the data scientist and engineering roles. Attend this global virtual event to learn more!

information

Exploring 3D Printing, Die Casting, & CNC Milling in Cooling System Design Intelligence & Machine Learning for Manufacturing

Thursday, July 27

This webinar dives into the world of thermal generative design and explore key manufacturing techniques for cooling systems.

We will focus on three well-known methods: 3D printing, Die Casting, and CNC milling, highlighting the variations in performance and their strengths and limitations.

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More Events!

find them here

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