

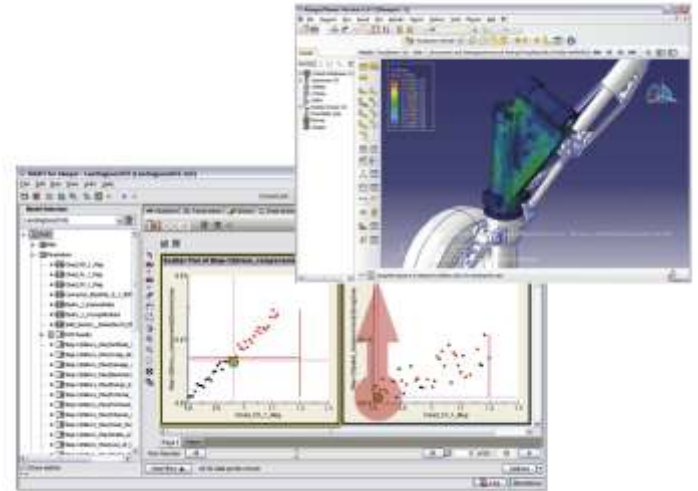
Isight for Abaqus

New Product Provides Design Exploration and Optimization to Abaqus Users

Isight for Abaqus is an add-on product for Abaqus FEA software that provides design exploration and optimization technology. This enables designers and engineers using Abaqus to perform rapid trade-off studies of real-world structural behavior—accelerating the development of innovative products in a variety of industries.

The add-on product allows a user to quickly explore thousands of design options in a well-understood space of competitive choices. It supports parallel submission of optimization, Monte Carlo, and Design of Experiments (DOE) jobs on multiprocessor machines or with third-party job scheduling software. An Isight for Abaqus user can collaborate with colleagues and partners to rapidly find the best design via an intuitive, interactive graphical user interface.

“The release of Isight for Abaqus marks a major milestone for SIMULIA as we leverage technology from recently acquired Engineous Software to expand and enhance our realistic simulation portfolio,” said Steve Crowley, director of product management, SIMULIA. “With the rapid delivery of this new product, SIMULIA is bringing market-leading optimization technology directly to our Abaqus users. This will dramatically increase the number of design options they can evaluate to enhance their products’ performance, reliability and quality, while reducing time and cost.”



Highlights of Isight for Abaqus:

- A complete suite of DOE techniques to explore design space
- Gradient and genetic algorithms to optimize structural design performance
- Quality and Six Sigma methods take into account the manufacturing and operational variability in product design
- Multi-run scatter plots offer one-click visualization of the virtual prototype in Abaqus/Viewer
- Correlation maps show the influence of design variables on product performance
- Response Surface Method (RSM) and Radial Basis Function (RBF) approximations interactively trade off product performance

“As we have worked to accelerate our development of medical devices, Medrad has benefited from the simulation software and consulting expertise provided by SIMULIA. Now, the use of Isight for Abaqus to automate simulation exploration will enable us to perform multi-factor Design of Experiments analysis—painlessly.”

—Ned Uber, Ph.D., Medrad Fellow, Medrad, Inc.

EDS Technologies in strategic partnership with Dassault Systemes plays a vital role in implementing Dassault Solutions, in India across various industry segments.

More information: www.simulia.com; www.edstechnologies.com