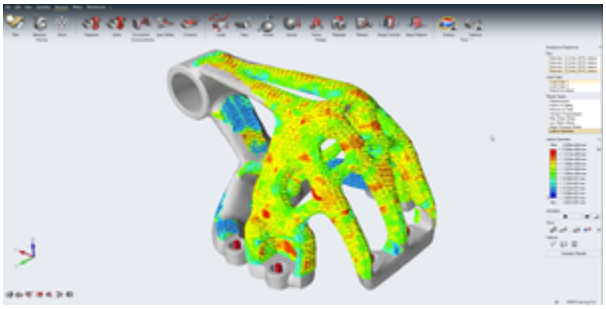
Inspire 2018 Software Release Accelerates Pace of Product Innovation

February 1, 2018

TROY, Mich., Feb. 01, 2018 (GLOBE NEWSWIRE) --

Altair (Nasdaq:ALTR) announced the release of Inspire 2018 simulation-driven design software. Available through its solidThinking channel partner network and directly to its HyperWorks user community, Inspire 2018 marks another milestone in Altair's leadership in generative design, optimization and simulation .

"Inspire 2018 enables designers and engineers to leverage simulation in new and inventive ways to accelerate the development of high-performance, innovative products," says James Dagg, CTO for User Experience at Altair. "Inspire integrates well into large manufacturing enterprises for rapid simulation and lightweighting insights, and has an intuitive user experience that is ideal for small and medium-size businesses with little or no simulation experience."



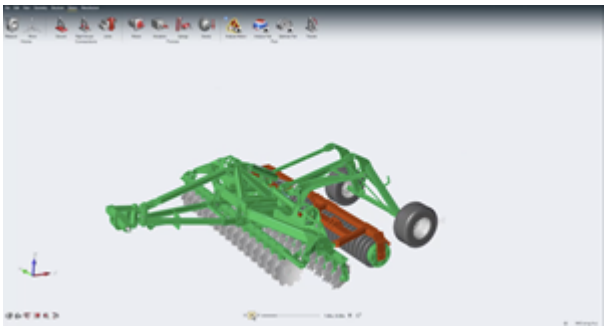
Structural simulation of mixed solid and lattice optimization results

Applied at the very beginning of clean-sheet design programs and for design exploration of current production parts, Inspire simulation-driven design software allows designers and engineers to:

- rapidly assemble and **simulate dynamic mechanical systems** to automatically resolve loads on system components for optimization and analysis
- **generate weight-efficient design proposals** unique to specified conventional or additive manufacturing processes with Altair's industry-leading topology optimization technology
- **simulate the performance of competing design concepts** for static loads, normal modes and buckling
- directly **export Inspire CAD geometry to 3D printers** to produce high-performance, quality parts

Mixed solid and lattice optimization on a prosthetic human jaw

Andy Bartels, Inspire Program Manager explained, "In order to stay competitive while pushing the innovation envelope, simulation must drive the entire design process from the early concept design phase all the way through to production. We continue to add tools to make Inspire more beneficial to its users in each step of the design process."



Assessment of complex mechanical Systems for load generation System Simulation

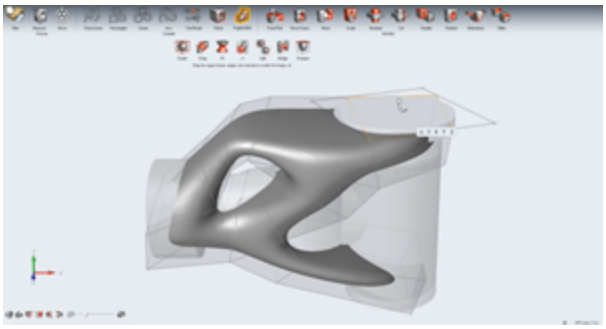
Inspire 2018 includes new advancements to:

- Generate optimized **lattice** and mixed **solid - lattice** structures, visualize simulation results in 3D, and export lattice designs in .stl file format for 3D printing
- View and interactively assign loads to load cases and import / export design loads in .csv file format with the new **Load Cases Table**
- Design for **additive manufacturing** with **overhang shape controls** to help reduce overhangs to create more self-supporting structures
- Automatically optimize the fit of PolyNURBS CAD geometry to generative design results with the new **PolyNURBS Fit Tool**

"Inspire 2018 is available immediately to clients as an application software

download and later this year as a cloud-based offering," says Dagg. "Branded as Inspire Unlimited™, the cloud offering of Inspire will include additional functionality such as secure data management, team collaboration tools, and on-demand high-performance computing (HPC)."

Visit altair.com/Inspire2018 to view video demos, register for a webinar introduction to Inspire 2018, and to request a free trial.



Create final solid geometry by automatically optimizing the fit of PolyNURBS CAD geometry to generative design results

About Altair (Nasdaq:ALTR)
Altair is focused on the development and broad application of simulation technology to synthesize and optimize designs, processes and decisions for improved business performance. With more than 2,000 employees, Altair is headquartered in Troy, Michigan, USA and operates 69 offices throughout 24 countries. Altair serves more than 5,000 customers across broad industry segments. To learn more, please visit www.altair.com.

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