



ESTECO announces new integration node coupling modeFRONTIER with SCULPTOR

Setting up DOE and optimization studies for CFD is now even easier with the newly released interface

Trieste (Italy), 10th April 2013 – Users of ESTECO’s **process integration and optimization software modeFRONTIER** and Optimal Solutions’ **SCULPTOR mesh morphing software** will now find it even easier to couple the two tools, thanks to the **new interface**. A **free webinar** will be held next month to highlight this **newly released feature**.

By using modeFRONTIER, one of the most widely used **process integration and design optimization** tools, **engineers** are now able to effortlessly integrate **SCULPTOR simulations** into complex multidisciplinary workflows, exploiting different CAE tools simultaneously. Additionally, modeFRONTIER’s **advanced algorithms** can be leveraged to set up the appropriate **DOE and optimization strategy**. While quickly parameterizing complex models and eliminating the need to modify the CAD model or remesh, the platform allows for **automation and control** of the entire process within one framework.

While running SCULPTOR from within modeFRONTIER’s environment has been possible for many years using text files and scripts, the new integration node provides a **seamless interface** which allows the user to **introspect the SCULPTOR model** file to identify the parameters of interest. Once these have been selected, the **“auto build” feature** within the node automatically creates a **modeFRONTIER workflow**, together with all the required connections, leaving the user just to couple in the analysis code of interest (eg CFD or FEA), define the parameters bounds, and to select the best algorithm for the study.

A webinar on **May 2nd, 2013**, hosted jointly by ESTECO and Optimal Solutions, will demonstrate the **new interface** between the two programs and show some relevant case studies where the direct coupling has been used. Interested parties are invited to **register in advance**, following this link: www.esteco.com/home/esteco_is/news/webinar-sculptor-2-mag-2013.html.

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About modeFRONTIER

modeFRONTIER is an integration platform for multi-objective optimization, automation of design simulation processes and analytic decision making. The software provides seamless coupling with engineering tools within different disciplines, while its powerful workflow allows the execution of complex chains for design optimization studies. Through innovative algorithms and advanced data visualization tools, modeFRONTIER helps companies identify the set of best possible solutions, while eliminating guesswork and introducing rigor and automation.

About ESTECO SpA

ESTECO is a pioneer in numerical optimization solutions, specialized in research and development of engineering software for all stages of the simulation-driven design process. Perfecting engineering and reducing complexity in the design process is our vision. Founded in 1999, the company is headquartered in Area Science Park in Trieste (Italy) and currently employs 40 professionals and serves more than 250 international clients, including BMW, Daimler, Ferrari, FIAT, Ford Motor Company, Honda, Mazda, Toyota. www.esteco.com