Design Optimization and HPC Workshop

Friday, 16th June 2017 | 2:00 pm - 5:00 pm

CAD-IT Consultants (Asia) Pte Ltd,
159 Sin Ming Road #03-05 Amtech Building,
Singapore 575625

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Introduction

ANSYS DesignXplorer is a design optimization application that operates under the ANSYS Workbench environment and incorporates both traditional and non-traditional optimization through a goal-driven approach. ANSYS DesignXplorer software provides instantaneous feedback on all proposed design modifications, which dramatically decreases the number of design iterations and improves the overall design process.

ANSYS HPC benefits includes:

- Enables the creation of large, high-fidelity models that yield accurate and detailed insight into the performance of a proposed design.
- High-fidelity simulations allow engineering teams to innovate with a high degree of confidence that their products will meet customer expectations - because their realistic simulations are predicting the actual performance of the product under real-world conditions
- Enables greater simulation throughput - using HPC resources, engineering teams can analyze not just a single design idea, but many design variations. By simulating multiple design ideas concurrently, R&D teams can identify dramatic engineering improvements early in the design process, prior to and more effectively than physical prototyping alone

Workshop Highlights

- Do you feel constrained in your simulation usage due to excessively long
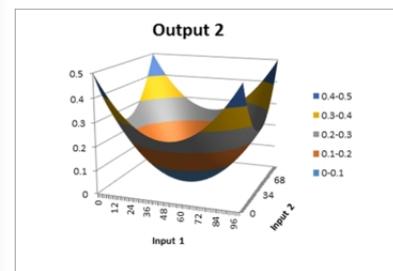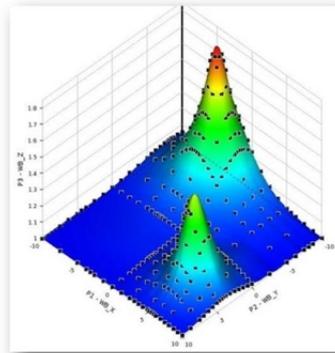
computational solving times?

- Do you want to leverage computational capacity to achieve faster turnaround times in a better way?
- Do you want to get higher fidelity insight from a larger or more complex simulation model?
- Are you wondering what hardware to buy?

If the answer is **YES**, then you should definitely attend this Test Drive!

You will be guided in using ANSYS DesignXplorer to explore, understand and optimize your design so you can apply simulation to drive product development.
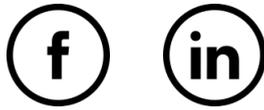
You will also receive best practice guidance that will help you achieve optimal performance out of your structural mechanics and fluid dynamics simulations. Guidelines will be given on CPUs, GPUs, parallel processing, interconnects, disk storage, as well as remote solving and licensing.

Trainer Profile

He Yawei joined CAD-IT in October 2015. He has two Masters degrees, from NTU and Wuhan University of Technology. Prior to joining CAD-IT, he worked as a Mechanical design engineer and had been in charge of 10 projects within 4 years. He is currently an Applications Engineer, focusing on ANSYS Multiphysics (Mechanical +Maxwell+ SCADE).

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