

## Design Optimization and HPC Workshop

**Friday, 14th July 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

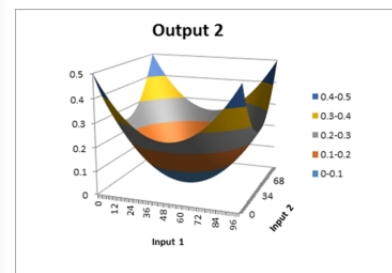
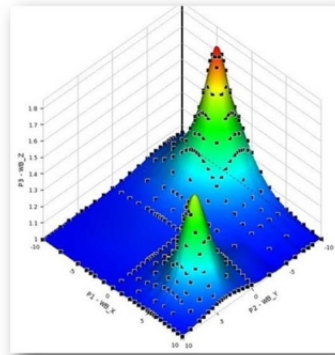
computational solving times?

- 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.



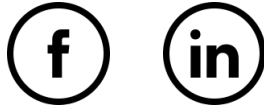
## Trainer Profile



**Hari Hara Sudhan** is currently the Applications Engineer for CAD-IT Consultants and part of a technical team that consists of more than 4 other PhDs consultants that support customers in various discipline domains.

He completed his Master of Science in Mechanical in National University of Singapore with his coursework focused on Design and Manufacturing. He specialized in structural simulation, and is currently providing consulting and post-sales technical support on ANSYS Workbench, Mechanical and nCode fatigue tool.

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**CAD-IT Consultants (Asia) Pte Ltd**

159 Sing Ming Road #03-05 Amtech Building Singapore 575625

Tel: (65) 6508-7575 Fax : (65) 6454-3766

email: [caditevents@cadit.com.sg](mailto:caditevents@cadit.com.sg)

<http://www.cadit.com.sg>

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