



CFD Simulation for Building and HVAC Industries

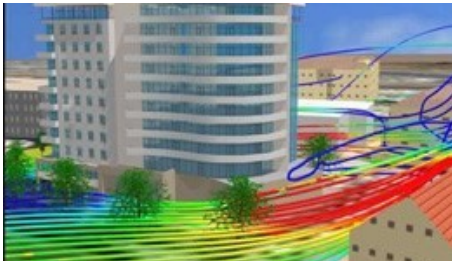
24th June, 2016 | 01.30pm to 05.00pm

CAD-IT Consultants (Asia) Pte Ltd

159 Sin Ming Road, #03-05 Amtech Building, Singapore 575625

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Introduction

Contrary to most industries, as there is no prototype for civil engineering and build environment, you have to be right the first time. Even before the construction begins, upon submitting the project proposal, you

need to prove that your design is better than your competitor's.

Nowadays, numerical simulation is becoming one of the common industry approaches. Yet its adoption in a Simulation Driven Building Design (SDBP) is still limited to a few leading companies. In addition, as Singapore is becoming digital hub of Asia, data centres are emerging and Green Mark Award can be achieved with the help of simulation. Simulation is also helpful for continuous improvement of thermal efficiency to reduce hotspots.

By applying industry specific best practices, early adopters of engineering simulation are making a difference by replacing some costly trial and error methods with quick and comprehensive modelling to emerge as leaders.

Objectives

This seminar provides an insight and best practices on conducting simulation involving fluid dynamics analysis (on 3D air flow distribution, temperature distribution, smoke propagation and solar loading) for building and HVAC industry with ANSYS CFD tool. Hands on sessions will be provided to ensure better understanding.

Who should attend?

Directors, Managers, Engineers and Researchers in Building and HVAC Industries.

Agenda

1.30 pm – 2.00 pm	Registration
2.00 pm – 2.30 pm	Computational Analysis for Building Industry
2.30 pm – 3.50 pm	Workshop 1: Car Park Ventilation
3.50 pm – 4.00 pm	Break
4.00 pm – 4.50 pm	Workshop 2: Solar Loading, Natural Ventilation of a Building

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Presenter Profile

Dr. Vincent Chai is currently a technical consultant in CAD-IT Consultants Pte Ltd. He is part of the technical team that support customers in various disciplines including HVAC industry. He graduated from NTU with a Ph.D. Degree in Mechanical and Aerospace Engineering.

CAD-IT awards and recognition



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