

 Sept 22, 2026

 8:30 am - 5:00 pm Singapore Time (SGT)

 Hilton Singapore Orchard 333 Orchard Road, Singapore 238867

Conference Overview

Industries are undergoing a significant transformation, from software-defined mobility and autonomous defense systems to advanced electronics, semiconductors, AI data centers, and industrial IoT, redefining how products are designed, developed, and operated. While these innovations unlock new possibilities, they also introduce unprecedented engineering complexity, tighter performance and regulatory requirements, and rising development costs. To address these challenges, engineers are increasingly adopting simulation, virtual prototyping, and digital engineering across the product development lifecycle. Today, AI-augmented simulation is enabling engineers to make up to 10x to 1000x faster and more accurate predictions, helping accelerate innovations and bring products to market.

Join us for the Ansys (part of Synopsys) Simulation World Singapore, where engineering leaders and experts from industries including mobility, defense, electronics, semiconductor, industrial, and energy will discuss emerging technology trends, engineering challenges, solution best practices, and the role of simulation. Participants will gain insights into the evolving product development landscape, from complex multiphysics to digital engineering.

Key Discussion Topics

- Next-gen product innovation trends
- Multiphysics – Mechanical, CFD, Thermal, Electromagnetics
- Electronics reliability, EMI/EMC
- Software and Systems
- Chip/Package/Board
- Optics and Photonics
- Industry 4.0 / IoT
- Advanced engineering practices
 - AI/ML, Cloud, GPU computing
 - Digital twin, MBSE, Automation

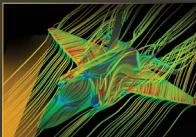
Who should attend

- R&D Engineers, Managers, Heads
- Design Engineers, Managers, Heads
- Product Development Engineers, Managers, Heads
- Quality Engineers, Managers, Heads
- Research, Academia
- Startups
- Industries: Aerospace and Defence, High-tech, Semiconductor and Electronics, Automotive & Transportation, Data Center, Industrial and energy

Conference Tracks

/ Industry

Defense, Mobility and Transportation





Semiconductor and Electronics





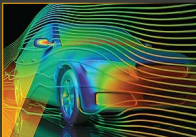
Industrial and Energy

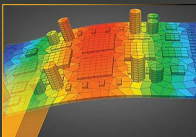




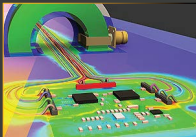
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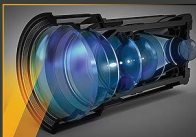
Fluids and Mechanical





Electronics and Optics





Software and Systems





Agenda

08:30 - 09:30	Registration + Tea/Coffee		
09:30 - 09:40	Welcome Note and Context Setting Roger Lee, Area Vice President - Taiwan, ASEAN & ANZ, Ansys (part of Synopsys)		
09:40 - 10:00	Corporate Keynote by Ansys (part of Synopsys) Anthony Dawson, Senior VP – Customer Excellence, Ansys (part of Synopsys)		
10:00 - 10:20	Industry Keynote		
10:20 - 10:40	Re-Engineering the Future: From Silicon to Intelligent Systems Padmesh Mandloi, Regional VP – Application Engineering APAC, Ansys (part of Synopsys)		
10:40 - 11:10	Tea/Coffee + Networking + Technology Showcase		
11:10 - 11:30	Industry Keynote Dr. Surya Bhattacharya, Director and Head of System-in-Package at A*STAR (IME)		
11:30 - 11:50	Industry Keynote - From Chip to Grid: Engineering Sustainable AI Data Centres through Multiphysics Simulation and Digital Twins Prof. PS Lee, Head and Professor, Department of Mechanical Engineering, National University of Singapore		
11:50 - 12:10	Technology Partner Keynote Cheryl Abundo, APJC Principal Technologist, AWS		
12:10 - 12:30	Breaking the Silos across Physics, Software and System Engineering Shitalkumar Joshi, Senior Director – Applications Engineering, Ansys (part of Synopsys)		
12:30 - 13:30	Lunch Break		
	Product Track 1: Fluids & Mechanical	Product Track 2: Electronics & Optics	Product Track 3: Software & Systems
13:30 - 13:50	What's New in Ansys Fluids Vinayak Kamat, Applications Engineering, Sr Manager, Ansys (part of Synopsys)	What's New in Ansys Electronics Syuhaimi Kassim, Senior Staff Application Engineer, Ansys (part of Synopsys)	Virtual Product Development through Digital Engineering & MBSE Sameera Damle, Regional Sales Manager, Ansys (part of Synopsys)
13:50 - 14:10	What's New in Ansys Structures Therdthai Thienthong, (D.Eng. ME.), Applications Engineering, Sr. Staff Engineer	What's New in Ansys Optics Kam Chow, Applications Engineering, Sr Manager, Ansys (part of Synopsys)	Digital Mission Engineering for Aerospace & Defense Sarthak Srivatsava, Applications Engineering, Manager, Ansys (part of Synopsys)
14:10 - 14:30	AI-Driven Automation in Structural and Fluids Solutions Nopasorn Kowathanakul, Applications Engineering, Staff Engineer, Ansys (part of Synopsys)	AI-Driven Automation in Electronics and Optics Solutions Desmond Tan, Applications Engineering, Principal Engineer, Ansys (part of Synopsys)	Developing Safety & Mission Critical Embedded Software Nithin Rao, Applications Engineering, Staff Engineer, Ansys (part of Synopsys)
	Industry Track 1: Defense, Mobility and Transportation	Industry Track 2: Electronics and Semiconductor	Industry Track 3: Industrial & Energy
14:30 - 14:50	From Digital Twins to Autonomous Systems: The Next Era of Defense, Mobility & Transportation Dr.-Ing. Madhukar Chatiri, CEO - CADFEM APAC	Advanced Simulation & Analysis for High-Tech Electronics Technology Naveen Prasad, Senior Engineer (Electronics solutions), CAD-IT Consultants (Asia) Pte Ltd	Accelerating Industrial and Energy Systems Development through Simulation Dileep K Narayanan, Director - Strategic Initiatives, DFETECH
14:50 - 15:10	Industry Case study Presentation	Industry Case study Presentation	Application of Modeling and simulation in oil and gas industry Ambrish Pandey, Manager Modeling & Simulation, Schlumberger
15:10 - 15:40	Tea/Coffee + Networking + Technology Showcase		
15:40 - 16:00	Industry Case study Presentation - Victor Lee Meng Head of Mechanical Systems, ADD VALUE	Industry Case study Presentation Dr Egor Khaidarov, VP of Engineering, MetaOptics	Low Carbon Technology Translational Testbed: Accelerating technology translation from lab to plant through modularisation and digitalisation Andrew Ng, Lead Research Engineer, A*STAR ISCE ²
16:00 - 16:20	Industry Case study Presentation	From Simulation to Product Design: Ansys Maxwell Applications in Magnetic Components and Wireless Charging Coils Chew Choon Seng, Senior Product Engineer, Superworld Electronics (S) Pte Ltd	Industry Case study Presentation
16:20 - 16:40	Simulation-led testing of payloads for A&D applications Sarthak Srivatsava, Applications Engineering, Manager, Ansys (part of Synopsys)	Technical Presentation Desmond Tan, Applications Engineering, Principal Engineer, Ansys (part of Synopsys)	Technical Presentation Therdthai Thienthong, Lead Application Engineer, Ansys (part of Synopsys)
16:40 - 16:45	Concluding Remarks	Concluding Remarks	Concluding Remarks
16:45 - 17:00	Tea/Coffee + Networking + Technology Showcase		

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