

SEMINAR ON
SEMICONDUCTOR CHIPS

THE FUEL BEHIND AI REVOLUTION

Abstract: In Oct 2025, Nvidia's valuation surpassed 5 trillion dollars, making it the most valuable company in the world! What is going on with this Silicon Valley company? It is supplying the fuel needed to make AI ubiquitous around the globe. No doubt the AI revolution is shaking the world. This presentation will touch on what is making the AI revolution viable. It is nothing but specialized semiconductor chips known as AI accelerators. These tiny but monstrously powerful machines are making bots like ChatGPT viable.

Every week new start ups are popping up in Silicon Valley with their secret sauce for AI accelerators - the race is on. Interestingly, semiconductor chips are enabling and benefiting from AI at the same time. An emerging trend in the industry is Agentic AI. Agentic AIs are specialized applications of AI targeting tasks like semiconductor design among many other possibilities. This presentation will talk about the emergence of agentic AI to revolutionize semiconductor design flow. EDA companies including Siemens EDA is in the forefront of agentic AI to automate semiconductor design flows in a radical way.



TUESDAY
30 DEC 2025



2:30 PM



DLT Room, IUT Library



Registration is free. Pre-registration is required to confirm participation, as seats are limited. Scan the QR code above or visit the link below to register.

Speaker

Dr. Abu Mahmudul Hassan

Dr. Abu Mahmudul Hassan is a senior executive in the high-tech industry in Silicon Valley (SV), California. He has over three decades of hands-on and management experience in Semiconductor design, verification, and test flows. A BUET graduate in Electrical Engineering, he completed his Masters and PhD from McGill University, Canada with Commonwealth Scholarship. He started his career at Nortel, Canada developing EDA software for DFT (Design for Test). Later he moved to SV, CA with Mentor Graphics which was later acquired by Siemens AG. Dr Hassan is now a senior Director with Siemens Digital Industries Software responsible for Digital Verification and Design for Test flows. He and his team, over the years, worked with almost every semiconductor chip company in the Americas providing EDA solutions including Agentic AI flows

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