Artificial Intelligence (A.I) and its implications on science and engineering

(A perspective from a practicing professional engineer)

in conjunction with World Engineering Day Celebration from 4th March till 8th March 2024

Organized by Information and Communication Technology Special Interest Group (ICTSIG)

IEM — The Institution of Engineers, Malaysia

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04th MARCH 2024, MONDAY
02:00 PM – 04:00 PM

Platform : Online via Zoom

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BEM Approved CPD Hours: 2   *Ref. no: IEM23/HQ/072/AGM (w)*

SYNOPSIS

Artificial Intelligence or A.I. have fascinated humans ever since the start of the information age. At this moment AI is escaping the realm of unimaginative sci-fi tropes and staking a claim as the forefront of technological progress. A.I. is the quest for superhuman machines that have the flexibility and resourcefulness of human intelligence, but the computational power and resources of machines. Recently we have seen some impressive advances in artificial intelligence, due to the fast progress in computer technology (hardware and software) and also development of more advanced AI algorithms.

This talk will highlight the historical perspective in AI development, the increasing popularity of AI, the challenges and the promises of AI and discussion of new techniques in large language models (LLMs)

By and large, machines ad automation systems still need to be programmed for particular tasks, or failing that to be provided with enormous numbers of supervised training examples that pertain largely to a single task. Most AI software remains narrowly engineered, to specific tasks. Hence the takeover of the world by machines (aka the Terminator analogy) is a highly unlikely outcome.

SPEAKER'S PROFILE

Ir. Tejinder Singh currently helms a boutique engineering advisory and consulting services company, which operates in a space that intersects energy efficiency, energy management, automation, artificial intelligence, and cybersecurity. He has more than 25 years of professional experience and has worked in many industries, from steel manufacturing to semiconductor industry, from energy contracting to electrical consulting, from telecommunications to academia and ICT. He is also one of the few experts in both the electrical energy and cyber security domains. He is a certified National EnMS Expert by United Nations Industrial Development Organization (UNIDO), a Lead Auditor for ISO 27001, a Six Sigma Black Belt, a HRDF Certified Trainer, a GBI facilitator, a Registered Electrical Energy Manager (REEM) and a Certified Information Systems Security Professional (CISSP). Tejinder Singh graduated with a Bachelor's of Science degree in Electrical and Computer Engineering from Tri-State University, Angola, Indiana, USA and also holds a Masters degree in Embedded Systems Design from University of Lugano, Switzerland.

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