LNMIIT Distinguished Lecture

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Lecture on

Artificial Intelligence (AI): Past, Present and Future

📅 **MARCH 6, 2021**

🕐 **11:30 AM TO 1PM**

Link for the Live event (Google meet) https://meet.google.com/nbs-bnbw-fui

ABSTRACT OF THE TALK

Ever since the conduct of the historically famous 1956 Dartmouth Summer Workshop, which has come to be regarded as the birthplace of the field of Artificial Intelligence (AI), significant amount of progress has been made in AI with intermittent periods of intense activity. Topics of focus for research and development have varied over the decades. Unfortunately, during that time, many promises and disappointments have also been associated with AI. Developments in related areas of computer science have also been responsible for the recent renewed momentum behind AI. As time goes on, while numerous benefits of AI are anticipated, many apprehensions do exist with respect to the societal impact of AI. Of late there is also the widespread tendency to equate AI to just machine learning!

In this talk, I will survey some of the historical AI developments and then focus on the current areas of investigations across academia and industry. Then, I will briefly touch on the remaining areas of exploration for more positive outcomes to emerge from the adoption of AI technologies in major segments of society at large. Some of the ongoing work in my former workplace, IBM, will also be discussed. Both software and hardware developments will be covered. I will also briefly touch upon on-going AI work in India. Even people outside of computer science will be able to appreciate this talk.

DR. C. MOHAN

Shaw Visiting Professor (National University of Singapore),
Distinguished Visiting Professor (Tsinghua University, China) **& Consultant** (Microsoft, USA),
Advisor (Tamil Nadu e-Governance Agency & Kerala Blockchain Academy, India),
Retired IBM Fellow (IBM Research, USA)

BIOGRAPHY

Dr. C. Mohan is currently the Shaw Visiting Professor at the National University of Singapore (NUS). He is also a Distinguished Visiting Professor at Tsinghua University in China, a Consultant to Microsoft's Data Team, and an Advisor of the Kerala Blockchain Academy (KBA) and the Tamil Nadu e-Governance Agency (TNeGA) in India. He retired in June 2020 from being an IBM Fellow at the IBM Almaden Research Center in Silicon Valley. He was an IBM researcher for 38.5 years in the database, blockchain and related areas, impacting numerous IBM and non-IBM products, the research and academic communities, and standards, especially with his invention of the well-known ARIES family of database locking and recovery algorithms, and the Presumed Abort distributed commit protocol. This IBM (1997), ACM (2002) and IEEE (2002) Fellow has also served as the IBM India Chief Scientist (2006-2009). In addition to receiving the ACM SIGMOD Edgar F. Codd Innovations Award (1996), the VLDB 10 Year Best Paper Award (1999) and numerous IBM awards, Mohan was elected to the US and Indian National Academies of Engineering (2009) and named an IBM Master Inventor (1997). This Distinguished Alumnus of IIT Madras (1977) received his PhD at the University of Texas at Austin (1981). He is an inventor of 50 patents. During the last many years, he focused on Blockchain, Big Data and HTAP technologies (http://bit.ly/sigBcP, http://bit.ly/CMgMDS). Since 2017, he has been an evangelist of permissioned blockchains and the myth buster of permissionless blockchains. In late 2020, Mohan became the Shaw Visiting Professor at NUS where he is currently teaching a seminar course on distributed data and computing. In late 2019, he became an Honorary Advisor to TNeGA for its blockchain and other projects. In August 2020, he joined the Advisory Board of KBA of India. Since 2016, Mohan has been a Distinguished Visiting Professor of China's prestigious Tsinghua University. He has served on the advisory board of IEEE Spectrum, and on numerous conference and journal boards. Mohan is a frequent speaker in North America, Europe and Asia. He has given talks in 43 countries. He is highly active on social media and has a huge network of followers. More information can be found in the Wikipedia page at *http://bit.ly/CMwIkP* and resume at *http://bit.ly/CMoNUS*

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