



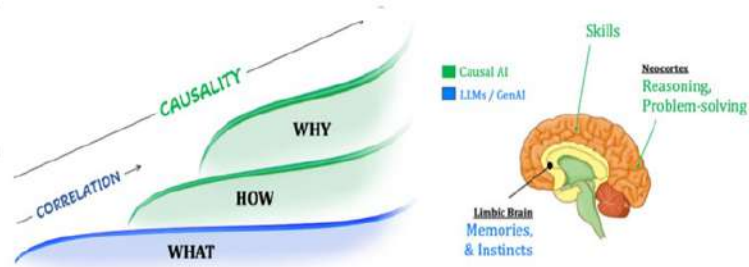
सीएसआईआर-केंद्रीय भवन अनुसंधान संस्थान, रुड़की
 CSIR-Central Building Research Institute, Roorkee
 Ministry of Science and Technology, Govt of India



CSIR-CBRI Experts Lecture Series Artificial Intelligence for the New Age

March 4th 2025, Tuesday, 4:00 pm onwards at CSIR-CBRI RNT Auditorium

Artificial Intelligence (AI) driven software is gradually seeping into every sphere of our life and work, iconized by our growing dependence on smart phones and its diverse sets of services. At its heart is a basic programme that aims to mimic the processes in our brain, distilling information from data, such as a child's unerring recognition of the face or voice of her mother despite their variability in the mother's variously conditioned moods and forms. Creative variants of this basic structure are now used by doctors, shop managers, autopilots and a variety of users to make informed decisions. Smart mimicry, however, also results in faking original artworks and purveying absurd solutions, exposing the Achilles's heel of AI, that is, its essentially obscure pathways used to arrive at the result. Fortunately, it is possible to tame AI's wayward ways by embedding in it the litmus test of cause and effect. The lecture will briefly outline the basic structure of AI and endeavour to show how Causal logic can enable us harness its yet unrealized potential in helping informed decision making, by cleansing it of its logically untenable outcomes.



Keynote Speaker



Dr. Vinod K Gaur
 Honorary Emeritus Scientist
 CSIR Fourth Paradigm Institute
 Former Director CSIR-NGRI

Dr. Vinod K Gaur is an honorary Emeritus scientist at the CSIR Fourth Paradigm Institute where he often lectures for AcSIR courses on Inverse problem theory and Continuum mechanics, in addition to engaging with young researchers in the fields of ground deformation, atmospheric transport and Systems dynamic modelling. His current passion includes exploration of AI tools in sharpening inferences from data. He is reported to have conducted extensive studies on the tectonics of the Himalayas and is an elected fellow of the National Academy of Sciences, India, The World Academy of Sciences, Indian Academy of Sciences and the Indian National Science Academy. The Council of Scientific and Industrial Research, the apex agency of the Government of India for scientific research, awarded him the Shanti Swarup Bhatnagar Prize for Science and Technology, one of the highest Indian science awards for his contributions to Earth, Atmosphere, Ocean and Planetary Sciences in 1979.

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