Other - Colloquium on Artificial Intelligence Research and Optimization

Fast AI: Enabling Rapid Prototyping of AI Solutions

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Abstract:

Recent advances in Artificial Intelligence (AI) have largely relied on the access to massive quantities of data and processing available in high-performance computing centers such as the Lincoln Laboratory Supercomputing Center (LLSC). Coupled with advanced algorithms, AI and ML technologies are making a significant impact to various government missions. As a world-leader in developing high-performance computing (HPC) tools that are easy-to-use without compromising performance, the LLSC has been developing a number of novel technologies to enable the rapid prototyping of AI solutions for a variety of missions. This research in “Fast AI” is pillared on modern computing, data management and interfaces & algorithms. In this seminar, I will discuss the AI landscape from the viewpoint of the LLSC along with an overview of various research thrusts across the LLSC that enable rapid prototyping of AI solutions.

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Speaker's Bio:

Dr. Vijay N. Gadepally is a Senior Member of the Technical Staff at the Massachusetts Institute of Technology (MIT) Lincoln Laboratory and works closely with the Computer Science and Artificial Intelligence Laboratory (CSAIL). Vijay holds M.Sc. and PhD degrees in Electrical and Computer Engineering from The Ohio State University and a B.Tech degree in Electrical Engineering from the Indian Institute of Technology, Kanpur. In 2011, Vijay received an Outstanding Graduate Student Award at The Ohio State University. In 2016, Vijay received MIT Lincoln Laboratory’s Early Career Technical Achievement Award and in 2017, Vijay was named to AFCEA's inaugural 40 under 40 list. Vijay’s research interests are in high performance computing, machine learning, artificial intelligence and high-performance databases. Vijay is a Senior Member of the IEEE.

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