

HDR² From Harnessing the Data Revolution to Harvesting the Data Revolution

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MLCommons Research: An Open-Source Machine Learning Ecosystem Linking Industry, Government and Academia to Democratize AI Technologies for Everyone

Wednesday 26 October 2022 15:30 (10 minutes)

MLCommons Research is described as a community to collaborate with and as a model for similar communities. Its working groups cover Algorithms, Datasets, Platforms, Storage and Science and Medical applications. MLCommons involves 62 companies, 6 DOE laboratories, 11 Universities with a flagship benchmark set MLPerf and the mission of “Accelerating machine learning innovation to benefit everyone.” MLCommons thrusts are Best Practice (software and ontologies), Datasets (Identify and package good ones; develop new ones) and Benchmarks. We describe 7 Science benchmarks with open data and models and a possible direction of Foundation AI models for Science. We note the importance of Clouds, Supercomputers and their integration HPC Clouds.

Data & Cyberinfrastructure

Education and Outreach

Research

Presenter: FOX, Geoffrey (Indiana University)

Session Classification: Data and Cyberinfrastructure Panel